

**WELLS G&H OU-2
CURRENT TITLE/DEED
278/280 SALEM STREET, WOBURN, MA**

TechLaw researched the current deed for 278/280 Salem Street, Woburn, MA to determine the current owner. The current owner is John Kelley, Trustee, 280 Salem Street, LLC.

ASSESSORS ONLINE DATABASE

For Woburn, MA

[New Search](#)[Print](#)[Google Map](#)[Log Out](#)

280 SALEM ST

[Click to enlarge](#)

MBLU : 38/ 01/ 06/ / /

Location: 280 SALEM ST

Owner Name: 280 SALEM STREET LLC

Account Number: 166995854371 0

**Search for Similiar
Sale Properties**



Parcel Value



	Assessed Value
Buildings	371,300
Extra Building Features	0
Outbuildings	0
Land	259,500
Total:	630,800



Owner of Record

280 SALEM STREET LLC
C/O JOHN KELLEY TRUSTEE
P.O. BOX 158
NORTH BILLERICA, MA 01862



Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
280 SALEM STREET LLC	33882/ 233	10/23/2001	600,000
280 SALEM STREET LLC	1244/ 4	10/23/2001	600,000
ROUTWELL CLIFFORD C	6927/ 567	1/1/1946	0



Land Use (click here for a list of codes and descriptions)

Land Use Code	Land Use Description
0310	PRI COMM MDL-94



Land Line Valuation

Size	Zone	Assessed Value
5.18 AC	I-P	259,500



Construction Detail

Item	Value
STYLE	Service Shop/C
MODEL	Commercial
Stories:	2
Occupancy	2
Exterior Wall 1	Concr/Cinder
Roof Structure	Flat
Roof Cover	Tar & Gravel
Interior Wall 1	Minim/Masonry
Interior Floor 1	Concr-Finished
Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	None
Bldg Use	PRI COMM MDL-94
Total Bedrms	00
Total Baths	0
1st Floor Use:	031C
Heat/AC	UNKNOWN
Frame Type	MASONRY
Baths/Plumbing	LIGHT
Ceiling/Wall	-DESCRIPTION-
Rooms/Prtns	LIGHT
Wall Height	10
% Comn Wall	0



Building Valuation

Item	Value
Living Area	21,213 square feet
Year Built	1988



Outbuildings (click [here](#) for a list of codes and descriptions)

Code	Description	Units
No Outbuildings		



Extra Features (click here for a list of codes and descriptions)

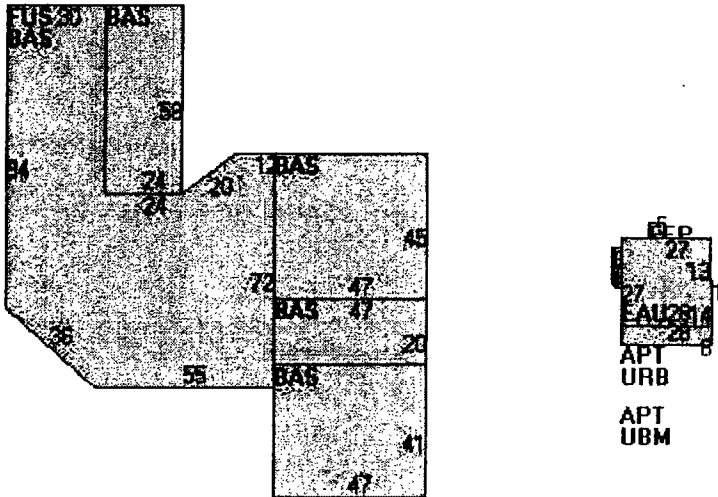
Description

Units

Extra Building Features



Building Sketch (click here for a list of codes and descriptions)



Area Summary (click here for a list of codes and descriptions)

Code	Description	Gross Area	Living Area
APT	Apartment	1654	1654
BAS	First Floor	12983	12983
EAU	Attic, Expansion, Unfinished	743	0
FEP	Enclosed Porch	25	0
FUS	Upper Story, Finished	6576	6576
UBM	Basement, Unfinished	201	0
URB	Lower Level Unfinished	743	0
Total		22925	21213

1186370

BK33882PG-23-

QUITCLAIM DEED

CLIFFORD C. BOUTWELL, individually, and William E. Boutwell, as Executor of Grace E. Boutwell (Middlesex Probate No. 00:3898EP, pursuant to the power of sale contained of Grace E. Boutwell, a copy of which is attached hereto, and GRACE P. MORSE, not individ Executrix of the Estate of Grace E. Boutwell (Middlesex Probate No. 00:3898EP, pursuant to sale contained in the Will of Grace E. Boutwell, a copy of which is attached hereto, for consider Six Hundred Thousand and 00/100 Dollars (\$600,000.00) grant to 280 Salem St., L.L.C., with address at _____

*with Quitclaim Covenants*PARCEL I

The land in Woburn with buildings thereon beginning at a corner on the North side of: at land of Charles E. Quinn et al, the line runs N 5° 55' W to a stake a distance of three and 06/100 thence turning the line runs N 29° 36' 00" E two hundred and 36/100 (200.36) feet to a stone bound in same course by land of aforesaid Quinn a distance of two hundred sixty eight and 19/100 (268.19) feet to the thread of the Aberjona River, thence following the thread of the Aberjona River in a general direction, three hundred thirty (330.00) feet more or less to the North side of a bridge on Salem point being on the North side of Salem Street, thence the line runs S 49° 00' W a distance of six and 70/100 (64.70) feet to a stone bound, thence on a curve bearing to the right with a radius 350.0 of one hundred thirty-eight and 19/100 (138.19) feet to a stone bound, thence the line runs S 49° 00' W a distance of one hundred fifty-six and 95/100 (156.95) feet to a stone bound thence on a curve bearing to the right with a radius of 755.61' a distance of twenty-seven and 30/100 (27.30) feet to a stake beginning.

Containing 62,500 sq. ft. more or less. The last four courses described constitute the North side of Salem Street as layed out by the County Commission in 1920.

For title reference see deed of Clifford C. Boutwell and Grace E. Boutwell to Clifford C. and Grace E. Boutwell, dated March 20, 1990 and recorded with Middlesex South Registry of Deeds 20445, Page 072, Death Certificate of Grace E. Boutwell, recorded prior hereto and Middlesex: 00P3898EP.

PARCEL II

that certain parcel of land with the buildings thereon, if any, situate in Woburn in the County of Middlesex and said Commonwealth, bounded and described as follows:

Westerly by land now or formerly of Charles E. Quinn et al, one hundred thirty-two and 1/100 feet; Northwesterly by said Quinn et al land, one hundred twenty-one and 05/100 feet; and Southeasterly by land now or formerly of Daniel J. Quinn, measuring on the upland, two hundred and 37/100 feet.

Said parcel is shown as lot B¹ on said plan, (Plan No. 3507^B).

All of said boundaries are determined by the Court to be located as shown on a subdivision map approved by the Court, filed in the Land Registration Office, a copy of which is filed in the Registry of Deeds for the South Registry District of Middlesex County in Registration Book 389, Page 197, with 58179.

The above described land is subject to a Taking by the Middlesex County Commission for the purpose of widening Salem Street.

1103370

BK3388

PARCEL III

that certain parcel of land with the buildings thereon, if any, situate in Woburn in the County of and said Commonwealth, bounded and described as follows:

Southwesterly by line of land marked City of Woburn (Sewer Location) as shown on plan mentioned, five hundred twenty-three and 17/100 feet;
Northwesterly by land now or formerly of John J. Riley Company, about five hundred and feet;
Northeasterly by the Abajona (sic) River,
Southeasterly by land now or formerly of Daniel J. Quinn, measuring on the upland, hundred and fifty-three feet; and
Southeasterly, again, one hundred twenty-one and 05/100 feet, and
Northeasterly, one hundred thirty-five and 66/100 feet; by lot B¹ on said plan, ending at Salem Street.

See Reg

Said parcel is shown as lot 1 on said plan, (Plan no. 3507^c).

All of said boundaries, except the river line, are determined by the Court to be located as a subdivision plan, as approved by the Court, filed in the Land Registration Office, a copy of wh in the Registry of Deeds for the South Registry District of Middlesex County in Registration Book 138, with Certificate 96488.

The above described land is subject to such flowage rights as may legally exist.

137(96)

For title reference see Certificate of Title No. ~~104130~~ filed in the Land Registration Office Middlesex South Registry of Deeds in Registration Book 1066, Page 40, Certificate No. 1871 Certificate of Grace E. Bourwell, recorded prior hereto and Middlesex Probate No. 00P3898EP.

PARCEL IV

that certain parcel of land with the buildings thereon, if any, situate in Woburn in the County of and said Commonwealth, bounded and described as follows:

Southeasterly by the Northwesterly line of Salem Street, two hundred twenty-one and 99/100 feet;
Southwesterly by land now or formerly of Hugh A. Quinn et al, four hundred forty-eight a feet; and
Northwesterly, eight and 62/100 feet, and
Northeasterly, five hundred and 82/100 feet, by line of land marked City of Woburn (Sewer as shown on plan hereinafter mentioned.

See Reg

Said parcel is shown as lot 2 on said plan, (Plan No. 3507^c).

All of said boundaries are determined by the Court to be located as shown on a subdivision approved by the Court, filed in the Land Registration Office, a copy of which is filed in the Registry for the South Registry District of Middlesex County in Registration Book 612, Page 138, with i 96488.

Together with the fee and soil of so much as Salem Street shown on said plan as was in implication of law in bounding by Salem Street in its former location prior to its relocation by the County Commissioners under Document 33795.

1105370

BK33882PE

WITNESS our hands and seals this 19 day of October, 2001.

William E. Boutwell
 WILLIAM E. BOUTWELL, not
 individually, but as Executor of
 the Estate of Grace E. Boutwell

Clifford C. Boutwell
 CLIFFORD C. BOUTWELL, Individually

Grace P. Morse
 GRACE P. MORSE, not individually but as
 Executor of the Estate of Grace E. Boutwell

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

October 29

Then personally appeared the above-named CLIFFORD C. BOUTWELL, individually
 and GRACE P. MORSE, not individually but as Executrix of the Estate of
 Grace E. Boutwell and acknowledged the foregoing instrument to be their free act and deed, before me,

Robert C. Morse
 Notary Public Robert C. Morse
 My Commission Expires: 10/29/01

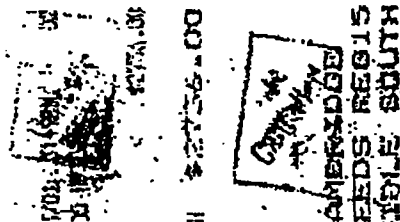
COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

October 19, 2001

Then personally appeared before me the above-named William E. Boutwell, r
 individually, but as Executor of the Estate of Grace E. Boutwell, and acknowle
 the foregoing instrument to be his free act and deed, before me,

Robert C. Morse
 Notary Public Robert C. Morse
 My Commission Expires: 10/29/01



1186870

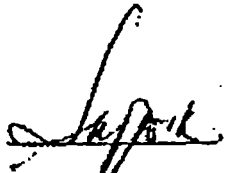
BK33882PG23

AFFIDAVIT OF ROBERT ORSI

I, Robert Orsi, being duly sworn do hereby depose and say of my personal knowledge.

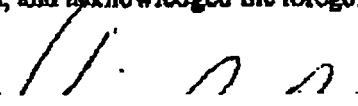
1. I am an attorney at Tarlow, Breed, Hart, Murphy & Rodgers, P.C., 21 Custom Street, Boston, Massachusetts.
2. On Friday, October 19, 2001, I witnessed Clifford C. Boutwell sign a deed of a property located at 278-280 Salem Street, Woburn, Massachusetts to 280 Salem L.L.C. Mr. Boutwell acknowledged his signature to be his free act and deed.
3. From my discussions with Mr. Boutwell's daughter, Grace P. Morse, I know that Boutwell is approximately eighty years old, and is seriously ill with diabetes. From my discussion with Mr. Boutwell, I observed him to be knowledgeable in a real estate transaction with 280 Salem St., L.L.C., and to freely sign the deed for sale.

Signed under the pains and penalties of perjury this 23rd day of October, 2001.


Robert Orsi, Esq.**COMMONWEALTH OF MASSACHUSETTS** ss.

Oct. 23, 2001

Then personally appeared the above-named Robert Orsi, and acknowledged the foregoing instrument to be his free act and deed, before me,



(1)

QUITCLAIM DEED

CLIFFORD C. BOUTWELL, individually, and William E. Boutwell, as Executor of the Estate of Grace E. Boutwell (Middlesex Probate No. 00:3898EP, pursuant to the power of sale contained in the Will of Grace E. Boutwell, a copy of which is attached hereto, and GRACE P. MORSE, not individually, but as Executrix of the Estate of Grace E. Boutwell (Middlesex Probate No. 00:3898EP, pursuant to the power of sale contained in the Will of Grace E. Boutwell, a copy of which is attached hereto, for consideration paid of Six Hundred Thousand and 00/100 Dollars (\$600,000.00) grant to 280 Salem St., L.L.C., with a principal address at _____

with Quitclaim Covenants

PARCEL I

The land in Woburn with buildings thereon beginning at a corner on the North side of Salem Street at land of Charles E. Quinn et al, the line runs N 5° 55' W to a stake a distance of three and 06/100 (3.06) feet, thence turning the line runs N 29° 36' 00" E two hundred and 36/100 (200.36) feet to a stone bound, thence in same course by land of aforesaid Quinn a distance of two hundred sixty eight and 19/100 (268.19) feet to the thread of the Aberjona River, thence following the thread of the Aberjona River in a general Southerly direction, three hundred thirty (330.00) feet more or less to the North side of a bridge on Salem Street, said point being on the North side of Salem Street, thence the line runs S 49° 00' W a distance of sixty-four and 70/100 (64.70) feet to a stone bound, thence on a curve bearing to the right with a radius 350.05' a distance of one hundred thirty-eight and 19/100 (138.19) feet to a stone bound, thence the line runs S 71° 36' W a distance of one hundred fifty-six and 93/100 (156.95) feet to a stone bound thence on a curve bearing to the right with a radius of 755.61' a distance of twenty-seven and 30/100 (27.30) feet to a stake to point of beginning.

Containing 62,500 sq. ft. more or less. The last four courses described constitute the layout of the North side of Salem Street as layed out by the County Commission in 1920.

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Said parcel is shown as lot B¹ on said plan, (Plan No. 3507^B).

All of said boundaries are determined by the Court to be located as shown on a subdivision plan, as approved by the Court, filed in the Land Registration Office, a copy of which is filed in the Registry of Deeds for the South Registry District of Middlesex County in Registration Book 389, Page 197, with Certificate 58179.

The above described land is subject to a Taking by the Middlesex County Commissioners for relocation of Salem Street, as shown on said plan, see Filed Plan 683, Document 33795 and to a Taking by the City of Woburn for construction of sewer, Document 111000.

For title reference see Certificate of Title No. 187189, filed in the Land Registry District of Middlesex County in Registration Book 1066, Page 39, Death Certificate of Grace E. Boutwell, recorded prior hereto and Middlesex Probate No. 00P3898EP.

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Southeasterly, again, one hundred twenty-one and 05/100 feet, and
Northeasterly, one hundred thirty-five and 66/100 feet; by lot B¹ on said plan, ending at a point on Salem Street.

Said parcel is shown as lot 1 on said plan, (Plan no. 3507^c).

All of said boundaries, except the river line, are determined by the Court to be located as shown on a subdivision plan, as approved by the Court, filed in the Land Registration Office, a copy of which is filed in the Registry of Deeds for the South Registry District of Middlesex County in Registration Book 612, Page 138, with Certificate 96488.

The above described land is subject to such flowage rights as may legally exist.

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PARCEL IV

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Said parcel is shown as lot 2 on said plan, (Plan No. 3507^c).

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For title reference see Certificate of Title No. 187189, filed in the Land Registration Office for the Middlesex South Registry of Deeds in Registration Book 1066, Page 41, Certificate No. 187191, Death Certificate of Grace E. Boutwell, recorded prior hereto and Middlesex Probate No. 00P3898EP.

WITNESS our hands and seals this 19 day of October, 2001.

[Signature]
WILLIAM E. BOUTWELL, not
individually, but as Executor of
the Estate of Grace E. Boutwell

[Signature]
CLIFFORD C. BOUTWELL, Individually and as
Executor of the Estate of Grace E. Boutwell

[Signature]
GRACE P. MORSE, not individually but as
Executor of the Estate of Grace E. Boutwell

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

October 29, 2001

Then personally appeared the above-named CLIFFORD C. BOUTWELL, individually and as Executor of the Estate of Grace E. Boutwell, and GRACE P. MORSE, not individually but as Executrix of the Estate of Grace E. Boutwell and acknowledged the foregoing instrument to be their free act and deed, before me,

[Signature]
Notary Public ROBERT C. CANT

My Commission Expires: 10/29/04

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

October 19, 2001

Then personally appeared before me the above-named William E. Boutwell, not individually, but as Executor of the Estate of Grace E. Boutwell, and acknowledged the foregoing instrument to be his free act and deed, before me,

[Signature]
Notary Public ROBERT C. CANT

My Commission Expires: 10/29/04

(1)

QUITCLAIM DEED

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Said parcel is shown as lot B¹ on said plan, (Plan No. 3507^B).

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PARCEL IV

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Northwesterly, eight and 62/100 feet, and
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Said parcel is shown as lot 2 on said plan, (Plan No. 3507^c).

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WITNESS our hands and seals this 19 day of October, 2001.

William E. Boutwell
WILLIAM E. BOUTWELL, not
individually, but as Executor of
the Estate of Grace E. Boutwell

Clifford C. Boutwell
CLIFFORD C. BOUTWELL, Individually and as
Executor of the Estate of Grace E. Boutwell

Grace P. Morse
GRACE P. MORSE, not individually but as
Executor of the Estate of Grace E. Boutwell

COMMONWEALTH OF MASSACHUSETTS

Quincy, ss.

October 29, 2001

Then personally appeared the above-named CLIFFORD C. BOUTWELL, individually and as Executor of the Estate of Grace E. Boutwell, and GRACE P. MORSE, not individually but as Executrix of the Estate of Grace E. Boutwell and acknowledged the foregoing instrument to be their free act and deed, before me,

Robert C. Davis
Notary Public ROBERT C. DAVIS
My Commission Expires: 10/29/04

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

October 19, 2001

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My Commission Expires: 10/29/04

ASSESSORS ONLINE DATABASE

For Woburn, MA

[New Search](#)[Print](#)[Google Map](#)[Log Out](#)

280 SALEM ST

NO
PHOTO

MBLU : 38/ 01/ 05/ / /

Location: 280 SALEM ST

Owner Name: 280 SALEM STREET LLC

Account Number: 166993554342 0

[Search for Similiar
Sale Properties](#)


Parcel Value

	Assessed Value
JS	0
Extra Building Features	0
Outbuildings	0
Land	56,400
Total:	56,400



Owner of Record

280 SALEM STREET LLC
C/O JOHN KELLEY TRUSTEE
P.O. BOX 158
NORTH BILLERICA, MA 01862



Ownership History

Owner Name	Book/Page	Sale Date	Sale Price
280 SALEM STREET LLC	33882/ 233	10/23/2001	600,000
280 SALEM STREET LLC	1244/ 4	10/23/2001	600,000
BOUTWELL CLIFFORD C	617/ 12	1/1/1959	0



Land Use (click here for a list of codes and descriptions)

Land Use Code	Land Use Description
---------------	----------------------

4410

IND LD PO



Land Line Valuation

Size	Zone	Assessed Value
1.33 AC	I-P	56,400



Construction Detail

Item	Value
STYLE	Vacant Land



Building Valuation

Item	Value
Living Area	0 square feet
Year Built	



Outbuildings (click here for a list of codes and descriptions)

Code	Description	Units
No Outbuildings		



Extra Features (click here for a list of codes and descriptions)

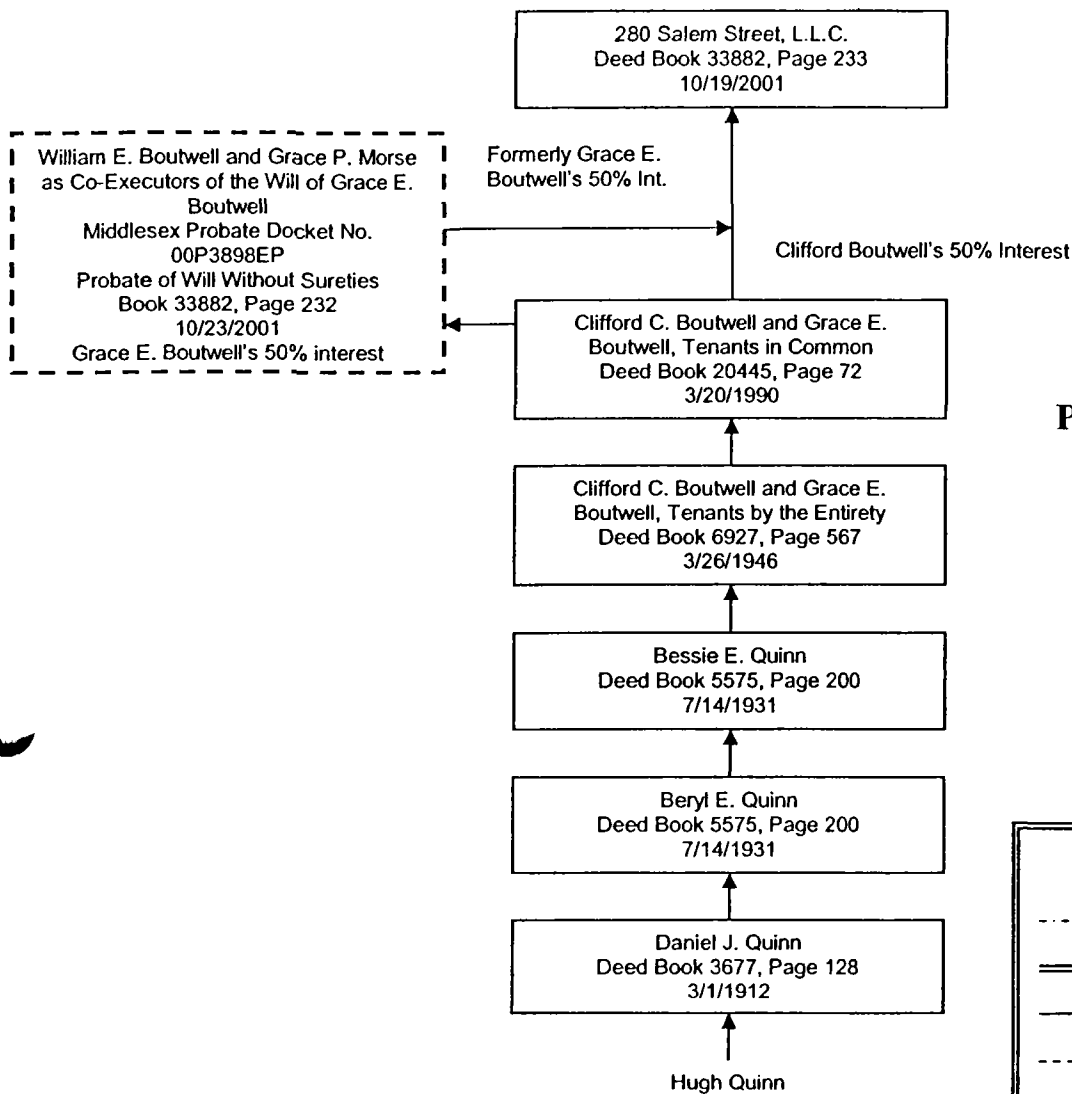
Code	Description	Units
No Extra Building Features		



Building Sketch (click here for a list of codes and descriptions)

Vacant Land, No Sketch

Online Database for Woburn, MA Powered by **Vision Appraisal Technology**



**278-280 Salem Street
Title Tree Graphic
Property Owned by 280
Salem Street, L.L.C.**

Legend	
-----	Tax Instrument
=====	Trust Instrument
-----	Deed
-----	Probate Instrument

The prior title reviews completed by Planners Collaborative, Inc. and Resource Applications, Inc., and William F. Hanscom, Investigator, U.S. Environmental Protection Agency, Office of Site Remediation & Restoration, Search & Cost Recovery Section did not track the ownership of this property back beyond the transfer of the property from Hugh Quinn to Daniel J. Quinn.

Title Information- Salem Street Properties (Boutwell)

278 Salem Street:

Assessed Owner: 280 Salem Street, L.L.C.

Assessed Land Value: \$57,100

Assessed Total Value: \$57,100

Land Size: 1.33 acres

280 Salem Street:

Assessed Owner: 280 Salem Street, L.L.C.

Assessed Land Value: \$259,500

Assessed Total Value: \$631,800

Land Size: 5.18 acres

Controlling Instrument:

Quitclaim Deed, Book 33882, Page 233

Grantor: Clifford C. Boutwell, individually, and William E. Boutwell, as Executor of the Estate of Grace E. Boutwell, and Grace P. Morse, as Executrix of the Estate of Grace E. Boutwell

Grantee: 280 Salem St., L.L.C.

Date of Document: October 19, 2001

Date of Recording: October 23, 2001

Notes: Per the City of Woburn's Tax Assessor's Field Card, the entirety of the properties commonly referred to as 278 and 280 Salem Street are conveyed by this deed.

Supporting Title Documents:

1990-2001:

Quitclaim Deed, Book 20445, Page 72

Grantor: Clifford C. and Grace E. Boutwell, as Tenants by the Entirety

Grantee: Clifford C. and Grace E. Boutwell, as Tenants in Common

Date of Document: March 20, 1990

Date of Recording: March 23, 1990

Notes: This deed conveys undivided one-half interests to both Grantees for property "[c]ontaining 62,500 sq. ft. more or less."

1946-1990

Quitclaim Deed, Book 6927, Page 567

Grantor: Bessie E. Quinn

Grantee: Clifford C. and Grace E. Boutwell, husband and wife, as Tenants by the Entirety

Date of Document: March 26, 1946

Date of Recording: March 27, 1946

Notes: Conveys property "[c]ontaining 62,500 sq. ft. more or less."

1931-1946

Quitclaim Deed, Book 5575, Page 200

Grantor: Beryl E. Quinn

Grantee: Bessie E. Quinn

Date of Document: July 14, 1931

Date of Recording: July 14, 1931

Notes: Conveys property "containing one acre more or less."

1931

Quitclaim Deed, Book 5575, Page 200

Grantor: Daniel J. Quinn

Grantee: Beryl E. Quinn

Date of Document: July 14, 1931

Date of Recording: July 14, 1931

Notes: Conveys property "containing one acre more or less."

1912

Quitclaim Deed, Book 3677, Page 128

Grantor: Hugh Quinn

Grantee: Daniel J. Quinn

Date of Document: March 1, 1912

Date of Recording: Unknown (prior title reviews completed by Planners Collaborative, Inc. and Resource Applications, Inc., and William F. Hanscom, Investigator, U.S. Environmental Protection Agency, Office of Site Remediation & Restoration, Search & Cost Recovery Section, did not track the ownership of this property back beyond the transfer of the property from Hugh Quinn to Daniel J. Quinn).

* Note: Although the property descriptions listed for the above-referenced deeds do not remain consistent, prior deed references included on each deed indicate that the title chain presented above is accurate for the properties commonly referred to as 278 and 280 Salem Streets. To verify such, additional, lengthy research would be required.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
278/280 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

July 14, 1931

Beryl F. Quinn, Woburn, Massachusetts, acquired a parcel of property containing approximately one (1) acre of land, located at Salem Street, Woburn, Massachusetts, from Daniel J. Quinn, Woburn, Massachusetts.¹

July 14, 1931

Bessie E. Quinn, Woburn, Massachusetts, acquired a parcel of property located at Salem Street, Woburn, Massachusetts, from Beryl F. Quinn, Woburn, Massachusetts.²

March 27, 1946

Clifford C. Boutwell and Grace E. Boutwell, Woburn, Massachusetts, acquired a parcel of property containing 62,500 square feet of land, located at Salem Street and abutting the Aberjona River in Woburn, Massachusetts, from Bessie E. Quinn, Woburn, Massachusetts.³

March 27, 1946

Clifford C. Boutwell and Grace E. Boutwell, Woburn, Massachusetts, obtained a mortgage for the property located at Salem Street, Woburn, Massachusetts, from the Woburn Co-operative Bank, Woburn, Massachusetts, in the amount of \$7,800.00. The discharge for this mortgage is recorded in Book No. 9243, Page 493.⁴

¹ Book No. 5575, Page 200, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

² Book No. 5575, Pages 200-201, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

³ Book No. 6927, Pages 567-568, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

⁴ Book No. 6927, Pages 568-571, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
278/280 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

February 4, 1959

Clifford C. Boutwell and Grace E. Boutwell, Woburn, Massachusetts, were recorded as the owners of the property located at 280 Salem Street, Woburn, Massachusetts.⁵

August 11, 1959

The Metropolitan District Commission, Commonwealth of Massachusetts, acquired a permanent easement to the property located at 280 Salem Street, Woburn, Massachusetts, from Clifford C. Boutwell and Grace E. Boutwell, Woburn, Massachusetts.⁶

July 21, 1977

Clifford C. Boutwell and Grace E. Boutwell, Woburn, Massachusetts, obtained a mortgage for the property located at 280 Salem Street, Woburn, Massachusetts, from the Woburn Five Cents Savings Bank, Woburn, Massachusetts, in the amount of \$150,000.00.⁷

April 14, 1988

The Wildwood Conservation Corporation acquired an "easement across within described and other registered land for purpose of utility poles," to the property located at 280 Salem Street, Woburn, Massachusetts, from Clifford C. Boutwell and Grace E. Boutwell, Woburn, Massachusetts.⁸

⁵ Certificate No. 72809, Book No. 617, Page 12, Middlesex County Land Registration, Cambridge, Massachusetts.

⁶ Document No. 345408, Middlesex County Land Registration, Cambridge, Massachusetts.

⁷ Document No. 558563, Middlesex County Land Registration, Cambridge, Massachusetts.

⁸ Document No. 105201, Middlesex County Land Registration, Cambridge, Massachusetts.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
278/280 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

January 13, 1990

Clifford C. Boutwell and Grace E. Boutwell, Woburn, Massachusetts, were recorded as the owners of the property located at 280 Salem Street, Woburn, Massachusetts.⁹

March 28, 1990

Clifford C. Boutwell and Grace E. Boutwell, Woburn, Massachusetts, obtained a mortgage for the property located at 280 Salem Street, Woburn, Massachusetts, from the Woburn Five Cents Savings Bank, Woburn, Massachusetts, in the amount of \$70,000.00.¹⁰

April 10, 1990

The Woburn Five Cents Savings Bank discharged the mortgage to Clifford C. Boutwell and Grace E. Boutwell recorded on Document No. 558563, Middlesex County Land Registration, Cambridge, Massachusetts.¹¹

August 23, 1993

Clifford C. Boutwell and Grace E. Boutwell, Woburn, Massachusetts, obtained a mortgage for the property located at 280 Salem Street, Woburn, Massachusetts, from the Sterling Bank, in the amount of \$60,000.00.¹²

October 19, 2001

280 Salem Street, LLC acquired a parcel of property containing 62,500 square feet of land,

⁹ Certificate No. 187191, Book No. 1066, Page 41, Middlesex County Land Registration, Cambridge, Massachusetts.

¹⁰ Document No. 819154, Middlesex County Land Registration, Cambridge, Massachusetts.

¹¹ Document No. 820035, Middlesex County Land Registration, Cambridge, Massachusetts.

¹² Document No. 916681, Middlesex County Land Registration, Cambridge, Massachusetts.

WELLS G & H OU-2
TITLE SEARCH NARRATIVE
278/280 SALEM STREET, WOBURN, MA
Prepared by PCI/RAI Joint Venture

located at Salem Street and abutting the Aberjona River in Woburn, Massachusetts, from Clifford C. Boutwell, individually, and William E. Boutwell and Grace P. Morse, as Executor and Executrix of the Estate of Grace E. Boutwell, pursuant to the authorization of sale contained in the Will of Grace E. Boutwell.¹³

¹³ Book 33882, Page 233, Middlesex County Registry of Deeds (South), Cambridge, Massachusetts.

file

NUS CORPORATION
SUPERFUND DIVISION

INTERNAL CORRESPONDENCE

C-583-8-5-133

TO: DON SMITH

DATE: SEPTEMBER 19, 1985

FROM: LIYANG CHU ^{W.D.}

COPIES: FILE

ABERJONA AUTO PARTS SITE

TDD No. F1-8508-01

Reference No. MA53SI

The NUS Field Investigation Team (NUS/FIT) was tasked by Region I U.S. Environmental Protection Agency (EPA) to perform an abbreviated site inspection and to update existing records of the Aberjona Auto Parts Site under Technical Directive Document (TDD) F1-8508-01. The Site Inspection package consists of a letter report and EPA Form 2070-13. No HRS ranking was conducted as the site is part of the ongoing Remedial Investigation and Feasibility Study of the Woburn Wells G & H Site which is already listed on the National Priority List.

LC/mth

cc: R. DiNitto
J. Morin
N. Demorest
T. Plant
T. Centi/ZPMO

Reviewed and Approved by:

R. DiNitto
R. DiNitto, RPM

Date:

9-19-85

NUS CORPORATION
SUPERFUND DIVISION

INTERNAL CORRESPONDENCE

C-583-8-5-134

TO: DON SMITH

DATE: SEPTEMBER 19, 1985

FROM: LIYANG CHU

COPIES: FILE

SUBJECT: ABERJONA AUTO PARTS DRAFT SITE INVESTIGATION REPORT
TDD No. F1-8508-01
Reference No. MA53SI

Please find enclosed three (3) copies of the Draft Site Inspection (SI) package for the Aberjona Auto Parts Site located at 278 Salem Street in Woburn, Massachusetts, ERRIS No. MAD019722594. The SI package consists of a letter report and the EPA Form 2070-13.

This package was prepared in response to Technical Directive Document F1-8508-01 and constitutes completion of the site investigation of the subject facility.

LC/mth

cc: R. DiNitto
J. Morin
N. Demorest
T. Plant
T. Centi/ZPMO

Reviewed and Approved by:


R. DiNitto, RPM

Date: 9-19-85

**NUS CORPORATION
SUPERFUND DIVISION**

INTERNAL CORRESPONDENCE

C-583-9-5-74

TO: DON SMITH/EPA

DATE: SEPTEMBER 19, 1985

FROM: LIYANG CHU

COPIES: FILE

ABERJONA AUTO PARTS DRAFT SITE INSPECTION REPORT
TDD No. F1-8508-01
Reference No. S300 MA53SI

INTRODUCTION

NUS/FIT Region I was tasked by the U.S. Environmental Protection Agency (EPA) Superfund Branch to prepare an update on the status of the Aberjona Auto Parts Site which will serve as a Preliminary Assessment/Site Inspection report. This task was performed under Technical Directive Document (TDD) No. F1-8508-01 which was issued to NUS/FIT Region I on August 2, 1985.

The documents prepared within comply with requirements set forth under EPA Superfund Legislation (CERCLA). However, they do not necessarily fulfill the requirements of other EPA regulations, such as RCRA. The Site Inspection is only intended to provide a preliminary screening of sites to facilitate site prioritization by EPA. It is a limited effort and is not intended to supplant a more detailed investigation.

SITE DESCRIPTION

The Aberjona Auto Parts facility is located at 278 Salem Street in Woburn, MA. The facility is situated on two lots (#34 and #36) consisting of 6.51 total acres and is bordered on the northeast by the Aberjona River, on the southwest by the Whitney Barrel Company, on the south by Salem Street, and to the northwest by the former J.J. Riley Company property (See Figures 1 and 2). A Metropolitan District Commission/city of Woburn Sewer easement (Lot 35) runs through the site from the southwest corner to Salem Street.

To the north of the property is a wetland area consisting of marshland with an abundance of flora. Situated directly on the site is a salvage yard which stores wrecked and salvaged automobiles. Most of the property constitutes an unpaved lot which serves as storage space for the automobiles and salvaged parts. Towards the southern boundary of the property is situated one building which is a combination main office, three-bay garage, and parts storage facility. A private dwelling is also located on the site along Salem Street. The Aberjona Auto Parts Site is situated approximately 800 feet and 1400 feet from Wells G and H, respectively. The site is located southwest of and across the Aberjona River from Wells G and H.

MEMO TO: DON SMITH
SEPTEMBER 19, 1985 - PAGE TWO

SITE HISTORY

The Aberjona Auto Parts facility is currently owned and operated by Cliff Boutwell and has been in operation for about thirty years. The facility is a salvage yard which purchases wrecked and used automobiles, and automobile parts, and re-sells salvaged and re-conditioned auto parts. A small degreasing operation of auto parts (engines) began in 1978 using an industrial solvent ZEP D-Grease. No more than two 55 gallon drums are kept on-site at any time. Auto parts are laid on the concrete floor of the three-bay garage, sprayed with "ZEP", allowed to soak, and finally rinsed clean with water. The rinse water and spent solvent are emptied into a grease settling pit which is connected to a Metropolitan District Commission (MDC) sewer line. The spent solution is picked up by the Murphy Waste Oil Company of Woburn (4, 5).

The city of Woburn's Wells G and H, situated northeast and across the Aberjona River and surrounding wetlands from the Aberjona Auto Parts Site, were found to be contaminated with various volatile organic compounds in 1979 by the State of Massachusetts Department of Environmental Quality Engineering. The wells were subsequently shut down and Metropolitan District Commission water was provided to supplement Woburn's daily demand (about 30%). Since 1979, various studies have been conducted on the properties surrounding the Aberjona Auto Parts facility.

In 1980, Ecology & Environment, Inc. (E & E) was tasked by the EPA to conduct an on-site investigation of the Aberjona Auto Parts property to identify any potential contamination due to the facility's activities. The report indicated that there were no signs of vegetative stress, there was an abundance of wildlife on the property, and that the surface water of the Aberjona River was free of any visible signs of contamination (4, 5).

In 1984, two studies were conducted by Woodward-Clyde Consultants (WCC) of the J.J. Riley Property (which adjoins Aberjona Auto Parts) on behalf of the Beatrice Foods Company to determine the geohydrologic relationship between the J.J. Riley Site and other areas of the Aberjona River Valley. The studies indicate that sand and gravel beds in the valley are highly transmissive and are used as a groundwater supply source. The reports also indicate that groundwater flow at the J.J. Riley Site and its environs is generally southeasterly across the Riley Site towards Salem Street, based on previous investigations and work conducted by WWC (3,6,7).

C-583-9-5-74

MEMO TO: DON SMITH
SEPTEMBER 19, 1985 - PAGE THREE

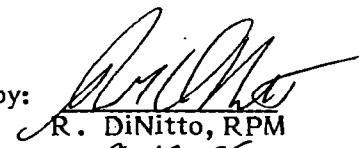
CURRENT STATUS

NUS/FIT Region I has been tasked by the Region I EPA MA/CT/VT Site Response Section (SRS) under Technical Directive Document (TDD) No. F1-8409-01 to conduct a Remedial Investigation (RI) of the Wells G & H Site, in Woburn, MA. During this ongoing RI, overburden and bedrock groundwater monitoring wells were installed on the Aberjona Auto Part's property. Results of analyses performed on groundwater from these wells and other upgradient and downgradient wells in the study area will be presented in the final RI report to EPA.

No further investigation of the Aberjona Auto Parts Site is recommended at present, since Wells G & H have already been listed on the National Priorities List and the Aberjona Auto Parts Site is part of an ongoing Remedial Investigation.

LC/keb

Reviewed and approved by:


R. DiNitto, RPM

Date:

9-19-85

REFERENCES

1. Uncontrolled Hazardous Waste Site Ranking System: A User's Manual National Oil and Hazardous Substances Contingency Plan, Appendix A (40 CFR 300) (47 FR 31219). July 16, 1982.
2. U.S. Geological Survey Topographic Map, 7.5 Minute Series
 - Wilmington Quadrangle, Photo Revised 1979
 - Boston North Quadrangle, Photo Revised 1979
 - Lexington Quadrangle, 1971
 - Reading Quadrangle, Photo Revised 1979
3. Geohydrology and Groundwater Contamination, J.J. Riley Site, Woburn, Massachusetts. Prepared by Woodward-Clyde Consultants, Wayne, NJ for Lowenstein, Sandler, Brochin, Kohl, Fisher, Boylan and Meanor, Roseland, NJ. January 31, 1984.
4. Preliminary Site Assessment of Aberjona Auto Parts, Task Report for TDD No. F1-8005-01E-02. Energy and Environment, Inc. for U.S. EPA. October 27, 1980.
5. Site Investigation Report of Aberjona Auto Parts, Task Report for TDD No. F1-8005-01E-02. Ecology and Environment, Inc. for U.S. EPA. November 26, 1980.
6. Phase II Groundwater Investigation, J.J. Riley Site, Woburn, Massachusetts. Prepared by Woodward-Clyde Consultants, Wayne, NJ for Lowenstein, Sandler, Brochin, Kohl, Fischer, Boylan, and Meanor, Roseland, NJ. November 1, 1984.
7. Chlorinated Solvent Contamination of the Groundwater. East Central Woburn, Massachusetts, Task Report for TDD No. F1-8203-01. Energy and Environment, Inc. for U.S. EPA. March 8, 1982.
8. Final Remedial Investigation Report. TDD No. F1-8409-01 (to be published). NUS Corporation Field Investigation Team.



ABERJONA AUTO PARTS

WOBURN, MA

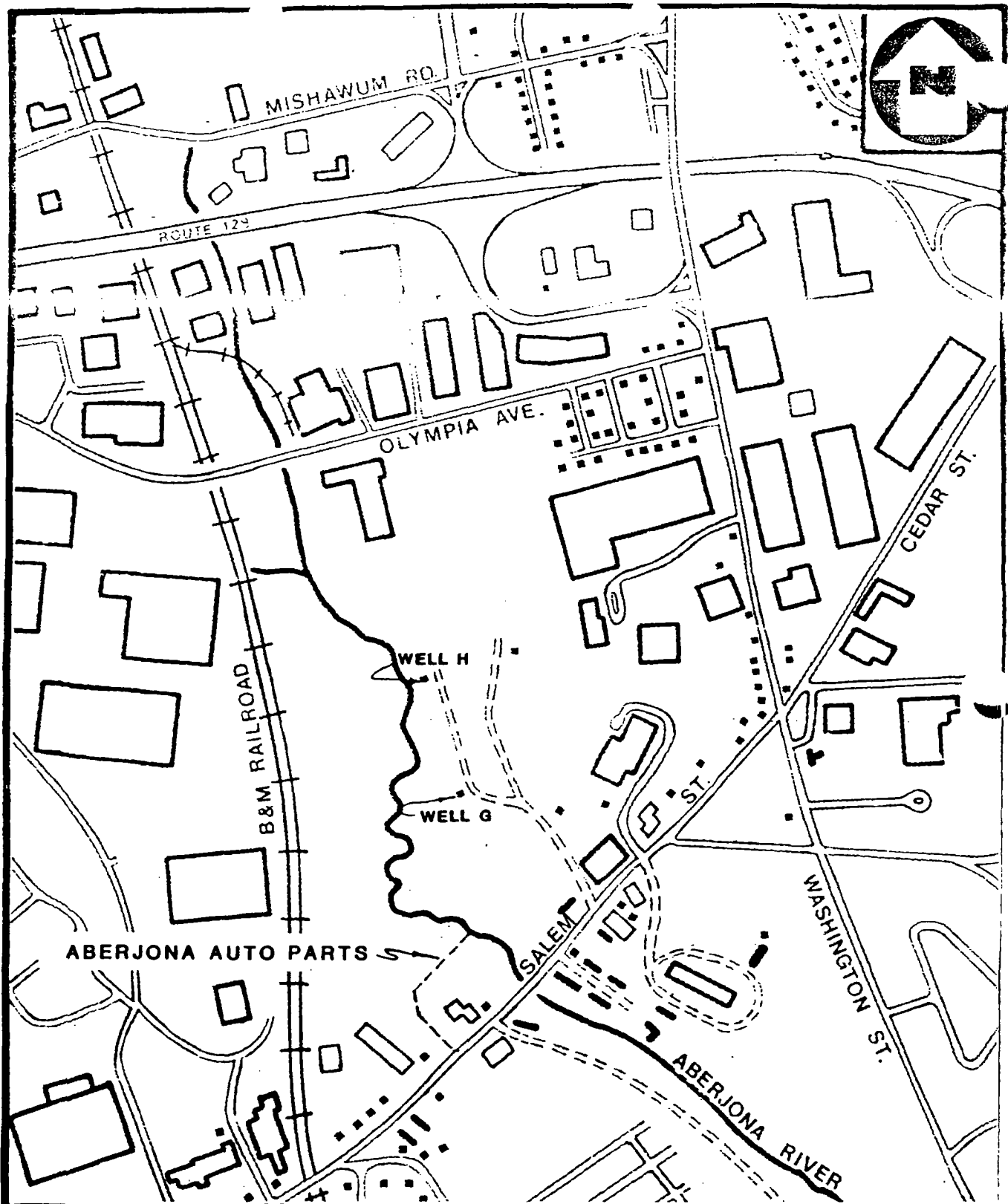
AUG 1985

0 1000 2000 3000 4000 5000 6000 7000 FEET



FIGURE 1

BASE MAP DERIVED FROM USGS LEXINGTON, WILMINGTON, READING, BOSTON NORTH QUADRANGLES, 1971 and 1979 PHOTOREVISED TOPOGRAPHIC MAPS.



0 500 1000
SCALE FEET
APPROXIMATE


ABERJONA AUTO PARTS
WOBURN, MA

AUG 1985

NUS
CORPORATE
A Halliburton Company

FIGURE 2

BASE MAP DERIVED FROM U.S.G.S. LEXINGTON, BOSTON NORTH, READING & WILMINGTON QUADRANGLES 1971, 1972 & 1980 AERIAL PHOTOGRAPHS OF EAST WOBURN, MA

	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT AND RLS EVALUATION Part 1 - Site Information		Identification U.S. EPA FIDDS # MAD 019722594

1.1 **Site Name**
 (Legal, common, or descriptive name of site)
 Aberjona Auto Parts

Street, Route # or specific location identified
 278 Salem Street

City
 Woburn

State
 MA

Zip Code
 01801

County
 Middlesex

Coordinates
 Latitude: 42 29'29"N Longitude: 71 07'51"W

Topographic Map and Edition
 Lexington Quadrangle, MA
 7.5' Series, 1971 (Ref. 2)

Location on Map (e.g., sector)
 UTM 324 900m E
 4 706 400m N (Ref. 2)

1.2 **OWNERSHIP - CURRENT**

Name Cliff & William Boutwell	Name N/A
Street Address (PO Box, RFD #, etc.) 280 Salem Street	Street Address (PO Box, RFD #, etc.)
City Woburn	City
State MA	State
Zip Code 01801	Zip Code

History of Ownership: Indicate order by 1 = most recent

Federal	County	Private 1	Other	Beginning Year N/A
State	Municipal	COCO	Unknown	Ending Year N/A

1.3 **CHECKLIST FOR PERMITTED RELEASES (FEDERAL OR STATE COOPERATIVE AGREEMENT)**

	NFDES	AIR	RCRA INTERIM STATUS	RCRA PERMIT	OTHER
Status of Most Recent Permit	-	-	-	-	-
Record of Violations?	-	-	-	-	-

What aspects of the site are not covered by these permits?

1.4 **TYPE OF SAMPLES TAKEN**

CN	Sediment	Soil	Leachate
SU	Air	Waste X	Biological

1.5 **DATES OF ACTIONS TAKEN AT THIS SITE OR REFERENCE NUMBER FOR SUMMARIES**

	Removal	Remedial	Legal
Federal	-	-	-
State	-	-	-
Other			

1.6 **DOCUMENTATION HISTORY (ENTER DATES OF REPORTS ON FILE)**

FILED Entry MAD 019722594	Prelim. Assessment Oct27, 1980 (4)	Field Inspection Reports (also reference # if referenced) Nov 26, 1980 (5)
-------------------------------------	--	--

SUPERFUND RECORD OF COMMUNICATIONS			SITE <u>Wells G&H</u>
CHECK APPROPRIATE BLOCK(S): <input type="checkbox"/> INCOMING PHONE CALL <input type="checkbox"/> CONFERENCE PHONE CALL <input type="checkbox"/> VISIT <input type="checkbox"/> OUTGOING PHONE CALL <input type="checkbox"/> MEETING / CONFERENCE <input type="checkbox"/> ASSIGNMENT			COUNTY: _____ STATE: <u>MA</u> <input type="checkbox"/> EMERGENCY/IMMEDIATE <input type="checkbox"/> REMEDIAL
SITE	TIME	PHONE NO. (Include Area Code)	<input type="checkbox"/> HEALTH CONSULTATION <input type="checkbox"/> SITE VISIT <input type="checkbox"/> REVIEW DATA <input type="checkbox"/> PUBLIC MEETING <input type="checkbox"/> WORKER HEALTH & SAFETY <input type="checkbox"/> OTHER (Specify) _____
(Name, Agency, Firm, and Address)		ROUTING	
(Name, Agency, Firm, and Address)			

Summary

The following SIs were handed to Bob Cleary of MA DEQE
on 12/3/85 ~~for review~~ FYI.

Woburn Sanitary L'f. II
 NE Resins & Pigments
 Whitney Barrel
 Aberjona Auto Parts
 Unifirst Corp.

ACTION REQUIRED, INFORMATION OR MATERIALS PROVIDED, ETC.

ENCLOSURE(S) INCLUDED: ☐ YES ☐ NO

PREPARED NAME & SIGNATURE

DATE

**FIELD INVESTIGATIONS OF
UNCONTROLLED HAZARDOUS WASTE SITES**

FIT PROJECT

TDD # F1-8005-01E-02

November 26, 1980

**TASK REPORT TO THE
ENVIRONMENTAL PROTECTION AGENCY
CONTRACT NO. 68-01-6056**

SITE INSPECTION REPORT
of
ABERJONA AUTO PARTS
278 Salem Street
Woburn, Massachusetts

Submitted to:
John Hackler, Chief
Office of Uncontrolled Waste Sites
U.S. EPA, Region I

Submitted by:
David Cook, Project Leader
Ecology and Environment, Inc. (E & E)
FIT Team, Region I

ecology and environment, inc.

International Specialists in the Environmental Sciences

SITE INSPECTION REPORT

FOR -

ABERJONA AUTO PARTS

TDD #: F1-8005-01E-02

Firm Name: Aberjona Auto Parts

Address: 278 Salem Street
Woburn, Massachusetts

Telephone: 933-4440

Owner: ⁷³Cliff and William Boutwell

Principal Contact at Site: Mr. William Boutwell

1. Purpose of Inspection:

To gather information and samples for possible RCRA and/or 311/104 Clean Water Act actions regarding Aberjona Auto Parts.

2. Objective:

To conduct an on-site investigation of Aberjona Auto Parts property to locate evidence of contamination, identify wastes and collect appropriate samples for screening and analysis.

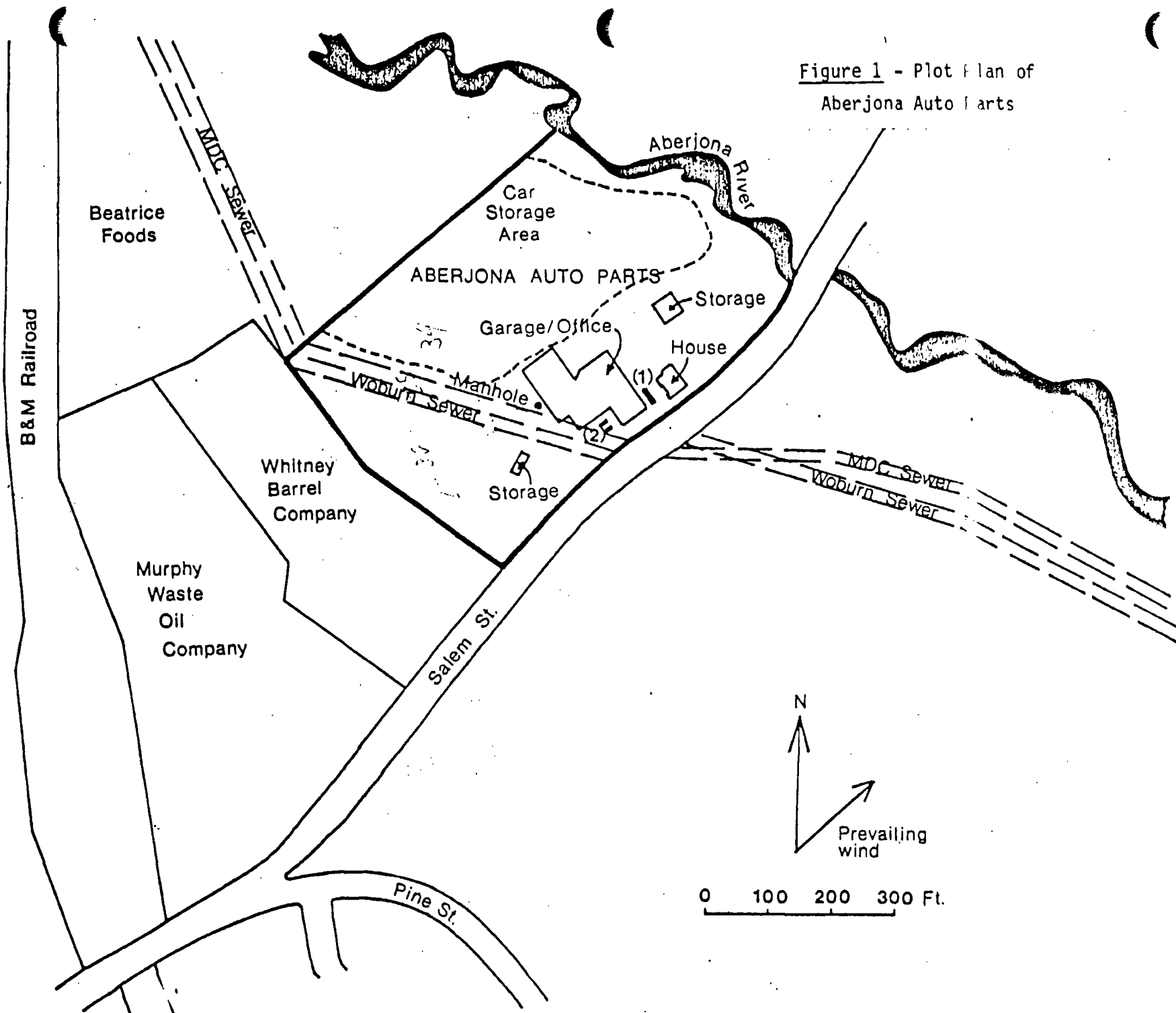
3. Background:

3.1 Description:

Aberjona Auto Parts occupies 4.53 acres at 278 Salem Street. It is bordered on the southwest by Whitney Barrel Company, on the northeast by the Aberjona River, and on the south by Salem Street (See Figure 1 for a plot plan of the site). Four buildings occupy the site; a cinder-block garage/parts storage area/office facility, a family-owned house, and two cinder-block storage sheds. The firm is family owned and has been operating for about thirty years. The primary operation of the firm is the purchase of wrecked autos, used autos, and auto parts, their re-conditioning if necessary, and their sale as parts. Approximately two-hundred cars are stored on the premises. Parts are taken from these cars as necessary and are stored in one of the previously mentioned storage areas. A perimeter survey of the site revealed approximately ten 55-gallon drums stored at the northeast corner of the garage area. Security in the area is adequate. The entire garage and auto storage area is fenced.

An MDC/City of Woburn sewer easement crosses the southwest corner of the site (See Figure 1). Just northeast of the easement, near the garage/office building, is a manhole connecting the underground waste solvent settling tank and the MDC Sewer. There are no wells located on the property.

Figure 1 - Plot Plan of
Aberjona Auto Parts



3. Background

3.1 Description - continued

The present use of the property has not changed for at least 14 years (See the 1966 aerial photograph presented in Figure 2).

3.2 Primary Site Activity:

The primary operation at Aberjona Auto Parts involves the purchase of used cars, wrecked cars, auto parts and their re-sale. A chemical, with the trade name ZEP D-Grease, is used for degreasing auto parts. The chemical is stored in a 55-gallon drum in the garage area. No more than two drums are stored on-site at one time. The auto parts are placed on a concrete floor in a three-bay garage and sprayed with "ZEP". They are left to soak. The "ZEP" is then rinsed off the parts with water. The solution empties into a grease pit, which is connected to an M.D.C. sewer line. Boutwell, the owner of Aberjona Auto Parts, feels that this method of disposal is justified because the "ZEP" salesman told him that their product is bio-degradeable. Boutwell further stated that the spent solution in the grease pit was picked up by Murphy Waste Oil Company in Woburn for re-processing. Occasionally transmission fluid is drained from cars and also mixed with the "ZEP" solution to be disposed of by way of the MDC sewer.

A Field Survey was conducted on October 17, 1980 by Dave Cook and Lori Fucarile of Ecology and Environment, Inc. Observations of the site were made by walking the perimeter of the property line. A manhole was noted on the southwest side of the garage/office complex. It's location was noted for testing during the site inspection. Observations were made of the Aberjona River, which borders the property on the northeast. The river did not appear to be contaminated as a result of the on-going activity. There was an abundance of wildlife, the vegetation was healthy, and the water itself was free of any visible evidence of pollution.

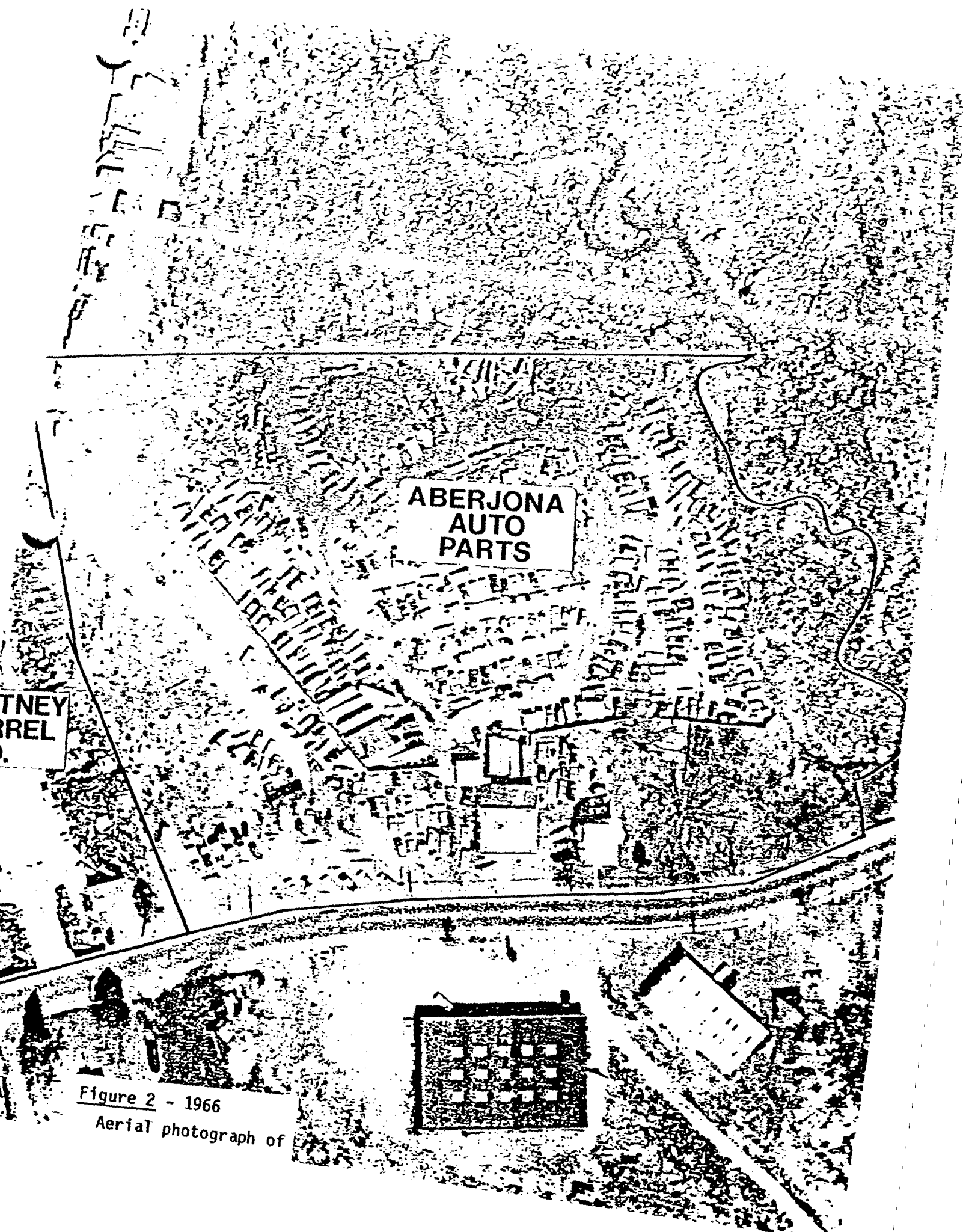


Figure 2 - 1966
Aerial photograph of

3. Background

3.3 Secondary Site Activity:

Not applicable.

3.4 Hazards Identified or Alleged:

The on-site inspection indicates only one potentially hazardous chemical used, stored and disposed of on-site. This chemical, with the trade name ZEP D-Grease, is exiting the site in unknown quantities through the MDC sewer line.

The local salesman of ZEP D-Grease, Mr. Ralph Bishop, is located at 40 Campanelli Drive, Braintree, Massachusetts. The company which markets the material is ZEP Manufacturing, located in Atlanta, Georgia. Representatives of both of the above were contacted regarding the composition of ZEP D-Grease. It was learned from Mr. Robert Beach, an analyst at the Atlanta office, that ZEP D-Grease is manufactured by Chem Central in Atlanta. Mr. Sneider, the marketing manager at Chem Central, identified ZEP D-Grease as lanasal Z-1, composed of 75% lanasal 100 and 25% #2 fuel oil. The physical constants for lanasal 100 are as follows:

Gravity	
API - 60°F	30.5
Specific - 60°F	.8735
Pounds per Gallon - 60°F	7.273
Distillation, °F	
Initial Boiling Point	317
5%	320
10%	321
50%	323
90%	328
Dry Point	335
Aniline Point, °F	56
Kauri-Butanol Value	92.2
Flash Point, °F, TCC	115

3. Background

3.4 Hazards Identified or Alleged - continued

The preceding constants match those of a high flash coal tar naptha solvent. The solvent is very likely a blend of small percentages of benzene, toluene and xylene and higher homologs. To confirm the composition of ZEP D-Grease, a return visit to Aberjona Auto Parts was made on November 21, 1980. At that time, a sample was taken directly from a 55-gallon drum of "ZEP". Screening of a sample taken at the on-site manhole indicated high levels of at least four volatiles. Final identification will be provided by the analysis of the concentrated sample described above. It is unlikely that midnight dumping takes place in the previously mentioned manhole as the entire property is fenced and wrecked autos surround the manhole.

During the site inspection, it was learned that the site was once a gas station and that two gasoline storage tanks of unknown capacity are buried on the south side of the property. Mr. Boutwell stated that the tanks were drained after gasoline sales were terminated.

It was also learned during the site inspection that a 500-gallon tank is buried at the southeast corner of the garage building. Mr. Boutwell stated that waste oil and transmission fluid are stored in this tank and that its contents are periodically pumped and taken off the premises by Murphy Waste Oil Company. During a telephone conversation, Mr. Murphy of Murphy Waste Oil Company stated that only oil is removed from the above mentioned tank. This oil is processed and sold as fuel oil for burning.

During the inspection, approximately ten 55-gallon drums located at the southeast corner of the garage were found to be empty. Mr. Boutwell explained that the drums were accumulated over a two- or three-year period and originally contained degreasing solvents.

No spilled materials or leaking containers were observed on site.

4. Concept of Operation:

A five-person team was used to conduct the interview with Mr. Boutwell, co-owner of Aberjona Auto Parts, and to survey the site. One sample was collected from the manhole on the property and brought to the EPA Regional Laboratory in Lexington for analysis. The safety plan and report are included in Appendix A.

A return visit was made to the site to collect a sample of concentrated ZEP D-Grease and to resample the on-site manhole. A five-person team was used to collect the samples. The manhole sample was taken to the EPA Regional Laboratory for screening and analysis. The concentrated "ZEP" sample was sent to the National Enforcement Investigation Center (NEIC) Laboratory in Denver, Colorado for analysis. Appropriate decontamination procedures were followed after collection of the samples. The samples were iced, and proper sample tags and chain of custody forms were completed. The Safety Plan and Report for the return visit are included in Appendix A.

5. Logistics and Site Set-Up:

No logistical problems were encountered during the planning and performance of the two on-site visits to Aberjona Auto Parts. Figures 3a and 3b show the locations of the command posts, decontamination areas and the itineraries for the two visits. During the return visit, concentrated "ZEP" was accidentally splashed on the butyl rubber aprons of the samplers. Appropriate decontamination procedures were followed. The waste decon solution was placed in a 55-gallon drum labelled "E & E decon" and left on site. Disposal of the drum and its contents will be arranged through the State.

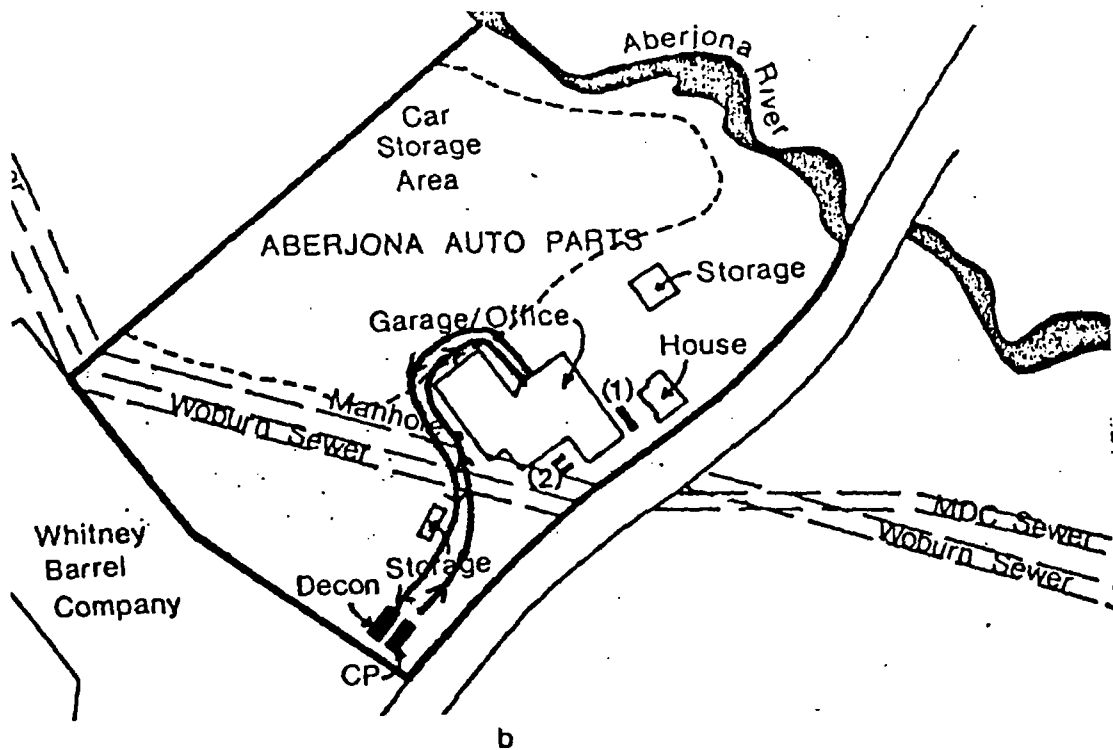
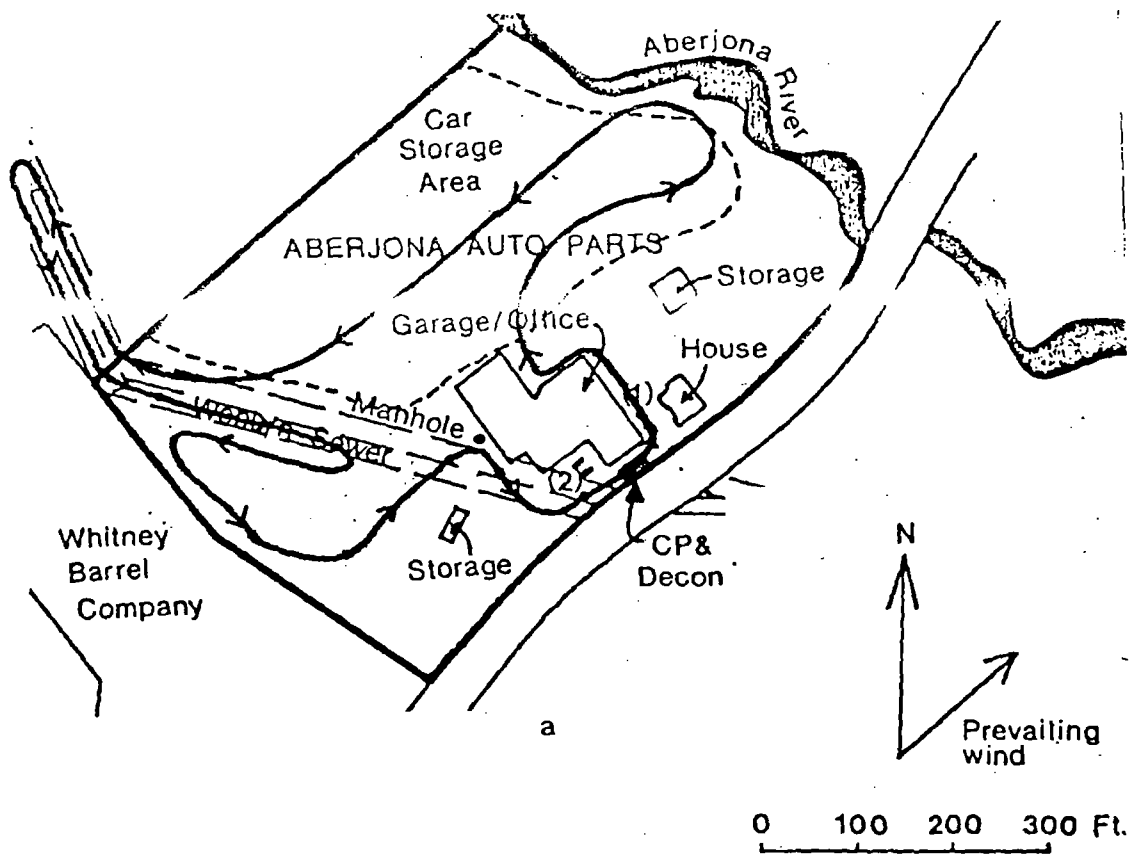


Figure 3 - Itineraries for
the Primary Site Inspection (a)
and the Return Sampling Visit (b)
to Aberjona Auto Parts

6. Team Organization and Task Assignments:

6.1 Site Entry Procedures:

6.1.1 Primary Site Entry Team:

David Cook	-	Site Entry Team Leader/ Site Representative Interviewer
Lori Fucarile	-	Site Safety officer
Paul Clay	-	Sampling
Richard DiNitto	-	Work Party
William Norman	-	Work Party

6.1.2 Return Sampling Visit Site Entry Team:

David Cook	-	Site Entry Team Leader
Lori Fucarile	-	Site Safety Officer
Paul Clay	-	Sampling
Richard DiNitto	-	Sampling
Glenn Smart	-	Equipment/Decon

6.2 Schedule of Events

6.2.1 Primary Site Inspection (October 28, 1980)

The site entry team was briefed by the team leader on the day before site entry. The briefing included review of appropriate data obtained during the preliminary assessment for the purpose of making the team aware of all potential hazards. The briefing focused the team's attention on the questions raised by the preliminary site assessment.

The following is the schedule of events for the site entry:

0900 - Team arrives at site, establishes command post, sets up decon and checks equipment.

6. Team Organization and Task Assignments:

6.2 Site Entry Procedures

6.2.1 Primary Site Inspection - continued

- 0945 - Site entry team leader gives final briefing.
- 1010 - Site investigation team meets William Boutwell, co-owner of the site.
- 1015 - Site entry team, accompanied by Mr. Boutwell, walks around northeast corner of garage/office building to survey the parts degreasing area. Ten empty drums are noted stacked against the wall.
- 1030 - Team proceeds to northeast property boundary along the Aberjona River. Observations are made of the general character of wildlife, vegetation, and water quality.
- 1040 - Team proceeds toward manhole on southwest corner of garage/office building. While enroute, it is observed that a dirt road leads out of the property boundary on the northwest, into a wooded area. Permission is granted to walk this road.
- 1045 - Team proceeds along dirt road and observes piles of discarded debris, including wooden beams, empty and partially full 55-gallon drums.
- 1100 - Team returns to main building area. The manhole cover is lifted and the sewer leading to the MDC sewer is sampled.
- 1110 - Team completes inspection and withdraws from site.

6. Team Organization and Task Assignments:

6.2 Site Entry Procedures

6.2.2 Return Sampling Visit (November 21, 1980)

The site team was briefed on the day before site entry regarding the potential hazards associated with collecting a sample of concentrated ZEP D-Grease and sampling the on-site manhole.

The following is a schedule of events for the site entry:

- 1100 - Team prepares to collect samples. MSA 401's are checked out and donned by DiNitto and Clay, sampling equipment is assembled, and team enters site. Decon is in place from Whitney Barrel Company site entry earlier that morning.
- 1120 - Sample collected at on-site manhole. Photo taken of sampling location. Sample tag #50418.
- 1130 - Sample of ZEP D-Grease collected by DiNitto and Clay. Photo taken of sampling location. Sample tag #50419.
- 1135 - Sampling team returns to van for decontamination.
- 1150 - Decontamination complete and decon disassembled. Samples are tagged and iced. Proper chain of custody forms prepared.
- 1215 - Team departs site.

7. Results of Investigation

7.1 Site Representative Interview

7.1.1 Primary Site Entry

Mr. William Boutwell, co-owner of Aberjona Auto Parts, met the site entry team at the site, and reviewed the primary site activity as described in Section 3.2. The team was then accompanied to the northeast corner of the garage/office building where Mr. Boutwell described the area used to degrease auto parts. At this time he was questioned about the ten barrels that are stacked against the building. He replied that they are accumulated empty barrels that once contained degreasing solvent. Mr. Boutwell also pointed out the approximate location of the two empty gasoline storage tanks and the waste oil tank that are buried on site.

Mr. Boutwell and the site entry team then walked to the Aberjona River on the northeast boundary of the property. The team noticed an abundance of wildlife, including ducks, geese, various birds, snakes, rabbits and a large dog. No vegetative stress was noted and the water itself was free of any visible signs of contamination.

The owner was then questioned concerning the dirt road leading into a wooded area on the northwest corner of the property. Mr. Boutwell explained that the road once joined Route 128 and was frequently used for dumping solid waste. The team walked along this road and found discarded piles of wood, metal, paper goods, and a few empty and partially full 55-gallon drums. The waste in the barrels appeared to be solidified sludge. There were empty quart oil cans, paper towels and rags mixed in with the debris.

7. Results of Investigation

7.1 Site Representative Interview - continued

7.1.2 Return Sampling Visit

" Brutwell explained that degreasing of engines began on site approximately two years ago. At that time, he looked for a biodegradable solvent and was told by the ZEP D-Grease salesman that his product was biodegradable.

7.2 Sample Acquisition and Analysis:

7.2.1 Primary Site Entry

Paul Clay and David Cook sampled the on-site sewer (Figure 1) to ascertain if volatile hydrocarbons were being dumped during the degreasing process. A head-space sample was obtained using a 40 ml VOA vial tied to a wooden dowel as a bailer. The sample was taken to the EPA Regional Laboratory for screening on the Century organic vapor analyser (OVA). Initial screening of the sample indicated high levels of volatiles in the sample. Resolution of chart peaks was not sufficient for positive identification of the volatiles present.

7.2.2 Return sampling visit:

The sampling team consisted of E & E personnel Paul Clay and Rich DiNitto, dressed in Level B protection (SCBA; butyl rubber aprons).

Sample station 001 (50418) was a manhole located at the west side of the auto parts building. This location provided a sampling point of all sewage leaving the auto parts building. The manhole cover was removed and a steady flow

7. Results of Investigation

7.1 Site Representative Interview

7.2.2 Return Sampling Visit - continued

noted. The sample was obtained by attaching a 40 ml VOA vial to the end of a stick which was then lowered down into the waste stream. A 10% head space was left in the vial for screening purposes. The sample was gray in color with finely suspended particles. No separate organic layer could be discerned.

Sample station 002 (50419) was a 55-gallon drum of "ZEP" degrease located inside the rear of the auto parts building. A four-foot long piece of glass tubing was inserted through the open bung hole in the top of the drum to determine if the contents were in separate phases. When the tube was withdrawn the contents appeared to be one phase. The actual sample was obtained by holding a 40 ml VOA vial under the spigot of a hand pump which was operated by the proprietor of the facility. The pump was operated vigorously and some of the contents splashed over the proprietor and the sampling team of Clay and DiNitto, the latter were prudently dressed in the appropriate protective level. The sample appeared to be one phase and was brown in color. A 10% ullage was left in the sample vial. The site entry team then exited to the decontamination station for personnel and sampling vial decontamination.

The sample from station 001 (50418) was taken to the E & E office for screening on a Century organic vapor analyzer.

The sample from station 002 (50419) was shipped on, November 24, 1980, to the National Enforcement Investigation Center (NEIC) High Hazard Laboratory in Denver, Colorado, for dilution and preliminary screening. The diluted sample will then be returned to EPA - Region I for analysis.

7. Results of Investigation

7.1 Site Representative Interview

7.2.2 Return Sampling Visit - continued

Preliminary screening of the manhole sample indicates the presence of at least four compounds in significant quantities. Of these, toluene and xylene have been positively identified.

8. Recommendations for Further Investigation:

All potential hazards to the environment from this site are related to the disposal of ZEP D-Grease. The components of "ZEP" may be exfiltrating from the MDC sewer, the settling basin or possibly the 500-gallon underground storage tank. The analysis of the concentrated sample, which should be available in approximately 40 days, will determine the exact components of "ZEP". No further on-site investigation of this site is warranted at this time.

The areas of dumping along the dirt road north of the property should be investigated further. This property belongs to Beatrice Foods and Hemingway Trucking Company.

It is highly recommended that the integrity of the MDC sewer downstream of Aberjona Auto Parts be determined as exfiltration of hazardous chemicals may be occurring.

9. Conclusions:

Toluene and xylene, as well as several other unidentified volatiles, are leaving the site by way of the MDC sewer.

Other than the above, activities at Aberjona Auto Parts are presenting no immediate hazards to the environment.

A completed Hazardous Waste Site - Site Inspection Report is included in Appendix B.

APPENDIX B

Potential Hazardous Waste Site

Site Inspection Report



POTENTIAL HAZARDOUS WASTE SITE
SITE INSPECTION REPORT

REGION	SITE NUMBER (to be assigned by HQ)
I	

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.

I. SITE IDENTIFICATION

A. SITE NAME Aberjona Auto Parts		B. STREET (or other identifier) 278 Salem Street	
C. CITY Woburn	D. STATE MA	E. ZIP CODE 01801	F. COUNTY NAME Middlesex
G. SITE OPERATOR INFORMATION			
1. NAME William and Cliff Boutwell		2. TELEPHONE NUMBER 933-4440	
3. STREET 278 Salem Street	4. CITY Woburn	5. STATE MA	6. ZIP CODE 01801
H. REALTY OWNER INFORMATION (if different from operator of site)			
1. NAME Same		2. TELEPHONE NUMBER	
3. CITY	4. STATE	5. ZIP CODE	
I. SITE DESCRIPTION 4.53 acres located in North Woburn. Three concrete buildings, two of which are for storage, the other serves as garage/office. One wooden dwelling. Wrecked cars and car parts on premises. Limited access.			
J. TYPE OF OWNERSHIP <input type="checkbox"/> 1. FEDERAL <input type="checkbox"/> 2. STATE <input type="checkbox"/> 3. COUNTY <input type="checkbox"/> 4. MUNICIPAL <input checked="" type="checkbox"/> 5. PRIVATE			

II. TENTATIVE DISPOSITION (complete this section last)

A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	B. APPARENT SERIOUSNESS OF PROBLEM <input type="checkbox"/> 1. HIGH <input type="checkbox"/> 2. MEDIUM <input checked="" type="checkbox"/> 3. LOW <input type="checkbox"/> 4. NONE
C. PREPARER INFORMATION	
1. NAME William Norman	2. TELEPHONE NUMBER 617-935-4008
3. DATE (mo., day, & yr.) 10/30/80	

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION		
1. NAME David C. Cook	2. TITLE Senior Geologist	
3. ORGANIZATION Ecology and Environment, Inc.	4. TELEPHONE NO. (area code & no.) 617-935-0228	
B. INSPECTION PARTICIPANTS		
1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
Lori Fucarile	Ecology and Environment, Inc.	617-935-0228
David Cook	Ecology and Environment, Inc.	617-935-0228
Paul Clay	Ecology and Environment, Inc.	617-935-0228
Richard DiNitto	Ecology and Environment, Inc.	617-935-0228
William Norman	Ecology and Environment, Inc.	617-935-0228

C. SITE REPRESENTATIVES INTERVIEWED (corporate officials, workers, residents)

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
William Boutwell	Co-owner	278 Salem Street, Woburn, MA 01801

Continued From Front

III. INSPECTION INFORMATION (continued)

D. GENERATOR INFORMATION (sources of waste)

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
Aberjona Auto Parts	935-4440	278 Salem Street, Woburn, MA 01801	Degreasing Solvent

E. TRANSPORTER/HAULER INFORMATION

1. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE TRANSPORTED
Murphy Waste Oil	935-9066	252 Salem Street, Woburn, MA	Spent degreasing solvent

F. IF WASTE IS PROCESSED ON SITE AND ALSO SHIPPED TO OTHER SITES, IDENTIFY OFF-SITE FACILITIES USED FOR DISPOSAL.

1. NAME	2. TELEPHONE NO.	3. ADDRESS
N/A		

G. DATE OF INSPECTION
(mo., day, & yr.)

10/27/80

H. TIME OF INSPECTION

0910

I. ACCESS GAINED BY: (credentials must be shown in all cases)

☒ 1. PERMISSION☐ 2. WARRANT

J. WEATHER (describe)

Rain

IV. SAMPLING INFORMATION

A. Mark 'X' for the types of samples taken and indicate where they have been sent e.g., regional lab, other EPA lab, contractor, etc. and estimate when the results will be available.

1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4. DATE RESULTS AVAILABLE
a. GROUNDWATER			
b. SURFACE WATER			
c. WASTE 40 ml VOA vial	X	EPA Lab	11/26/80 Screening
d. AIR			
e. RUNOFF			
f. SPILL			
g. SOIL			
h. VEGETATION			
i. OTHER (specify)			

B. FIELD MEASUREMENTS TAKEN (e.g., radioactivity, explosivity, PH, etc.).

1. TYPE	2. LOCATION OF MEASUREMENTS	3. RESULTS
Explosimeter	various	negative
O ₂ Meter	various	normal
OVA	sewer	> 1000 ppm Volatiles

Continued From Page 2

IV. SAMPLING INFORMATION (continued)

C. PHOTOS

1. TYPE OF PHOTOS

☒ a. GROUND ☒ b. AERIAL

2. PHOTOS IN CUSTODY OF:

Ecology and Environment, Inc.

D. SITE MAPPED?

☒ YES. SPECIFY LOCATION OF MAPS:

Ecology and Environment, Inc.

E. COORDINATES

1. LATITUDE (deg.-min.-sec.)

42° 33' 33"

2. LONGITUDE (deg.-min.-sec.)

71° 9' 00"

V. SITE INFORMATION

A. SITE STATUS

☒ 1. ACTIVE (Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)☐ 2. INACTIVE (Those sites which no longer receive wastes.)☐ 3. OTHER (specify):
(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)

B. IS GENERATOR ON SITE?

☐ 1. NO☒ 2. YES (specify generator's four-digit SIC Code):

C. AREA OF SITE (in acres)

4.53

D. ARE THERE BUILDINGS ON THE SITE? 1 wooden dwelling

☐ 1. NO☒ 2. YES (specify): 2 storage sheds-concrete block
1 office/garage-concrete block

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity(ies) and details relating to each activity by marking 'X' in the appropriate boxes.

X	A. TRANSPORTER	X	B. STORER	X	C. TREATER	X	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP		2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE	X	3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE	X	5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER (specify):		6. OTHER (specify):		6. BIOLOGICAL TREATMENT		6. INCINERATION
			2 full drums of de-greasing solvent		7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
			1 500 gallon tank for spent solvent/oil		8. SOLVENT RECOVERY		8. OTHER (specify):
					9. OTHER (specify):		

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

☐ 1. STORAGE ☐ 2. INCINERATION ☐ 3. LANDFILL ☐ 4. SURFACE IMPOUNDMENT ☐ 5. DEEP WELL

☐ 6. CHEM/BIO/PHYS TREATMENT ☐ 7. LANDFARM ☐ 8. OPEN DUMP ☐ 9. TRANSPORTER ☐ 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

☒ 1. LIQUID ☐ 2. SOLID ☒ 3. SLUDGE ☐ 4. GAS

B. WASTE CHARACTERISTICS

☐ 1. CORROSIVE ☐ 2. IGNITABLE ☐ 3. RADIOACTIVE ☐ 4. HIGHLY VOLATILE

☒ 5. TOXIC ☐ 6. REACTIVE ☐ 7. INERT ☐ 8. FLAMMABLE

☐ 9. OTHER (specify):

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Possible chlorinated hydrocarbons used for degreasing

Continued From Front

VII. WASTE RELATED INFORMATION (continued)

2. Estimate the amount (specify unit of measure) of waste by category; mark 'X' to indicate which wastes are present.

a. SLUDGE		b. OIL		c. SOLVENTS		d. CHEMICALS		e. SOLIDS		f. OTHER	
AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT		AMOUNT	
UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE		UNIT OF MEASURE	
UNK				UNK							
X (1) PAINT, PIGMENTS		X (1) OILY WASTES		X (1) HALOGENATED SOLVENTS		X (1) ACIDS		X (1) FLYASH		X (1) LABORATORY, PHARMACEUT.	
(2) METALS SLUDGES		(2) OTHER (specify):		X (2) NON-HALOGENATED SOLVENTS		(2) PICKLING LIQUORS		(2) ASBESTOS		(2) HOSPITAL	
(3) PULP				(3) OTHER (specify):				MILLING/GRINDING TAILINGS			
(4) ALUMINUM SLUDGE				Identified by trade have "ZEP"		(4) PESTICIDES		(4) FERROUS SMELTING WASTES		(4) MUNICIPAL	
X (5) OTHER (specify): sludge from settling basin for degreasing solvent					(5) DYES/INKS		(5) NON-FERROUS SMELTING WASTES		(5) OTHER (specify):		
					(6) CYANIDE		(6) OTHER (specify):				
					(7) PHENOLS						
					(8) HALOGENS						
					(9) PCB						
					(10) METALS						
				(11) OTHER (specify):							

D. LIST SUBSTANCES OF GREATEST CONCERN WHICH ARE ON THE SITE (place in descending order of hazard)

1. SUBSTANCE	2. FORM (mark 'X')			3. TOXICITY (mark 'X')				4. CAS NUMBER	5. AMOUNT	6. UNIT
	a. SOLID	b. LIQ.	c. VAPOR	a. HIGH	b. MED.	c. LOW	d. NONE			
"ZEP" Coal tar naptha		X			X				in sewer	

VIII. HAZARD DESCRIPTION

FIELD EVALUATION HAZARD DESCRIPTION: Place an 'X' in the box to indicate that the listed hazard exists. Describe the hazard in the space provided.

☒ A. HUMAN HEALTH HAZARDS

Inhalation of "Zep" during degreasing operations

VIII. HAZARD DESCRIPTION (continued)

☐ B. NON-WORKER INJURY/EXPOSURE

☒ C. WORKER INJURY/EXPOSURE

Inhalation of "Zep" Degreaser

☒ D. CONTAMINATION OF WATER SUPPLY

Exfiltration from sewer possible

☐ E. CONTAMINATION OF FOOD CHAIN

☒ F. CONTAMINATION OF GROUND WATER

Through exfiltration from MDC sewer

☐ G. CONTAMINATION OF SURFACE WATER

Continued From Front

VIII. HAZARD DESCRIPTION (continued)

☐ H. DAMAGE TO FLORA/FAUNA

☐ I. FISH KILL

☐ J. CONTAMINATION OF AIR

☐ K. NOTICEABLE ODORS

☒ L. CONTAMINATION OF SOIL

Through exfiltration from sewer

☐ M. PROPERTY DAMAGE

VIII. HAZARD DESCRIPTION (continued)

☐ N. FIRE OR EXPLOSION☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID☒ P. SEWER, STORM DRAIN PROBLEMS

Spent solvent transferred to MDC sewer

☐ Q. EROSION PROBLEMS☐ R. INADEQUATE SECURITY☐ S. INCOMPATIBLE WASTES

VIII. HAZARD DESCRIPTION (continued)

☐ T. MIDNIGHT DUMPING

☐ U. OTHER (specify):

IX. POPULATION DIRECTLY AFFECTED BY SITE

NONE

A. LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	C. APPROX. NO. OF PEOPLE AFFECTED WITHIN UNIT AREA	D. APPROX. NO. OF BUILDINGS AFFECTED	E. DISTANCE TO SITE (specify units)
1. IN RESIDENTIAL AREAS				
2. IN COMMERCIAL OR INDUSTRIAL AREAS				
3. IN PUBLICLY TRAVELLED AREAS				
4. PUBLIC USE AREAS (parks, schools, etc.)				

X. WATER AND HYDROLOGICAL DATA

A. DEPTH TO GROUNDWATER (specify unit) less than 10 ft.	B. DIRECTION OF FLOW South	C. GROUNDWATER USE IN VICINITY industrial
D. POTENTIAL YIELD OF AQUIFER > 3 MGD/day	E. DISTANCE TO DRINKING WATER SUPPLY (specify unit of measure) 3 miles	F. DIRECTION TO DRINKING WATER SUPPLY South west

G. TYPE OF DRINKING WATER SUPPLY

- ☐ 1. NON-COMMUNITY < 15 CONNECTIONS
☒ 2. COMMUNITY (specify town): Woburn > 15 CONNECTIONS
☐ 3. SURFACE WATER
☒ 4. WELL

Continued From Page 8

X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/buildings)	4. NON-COM- MUNITY (mark 'X')	5. COMMUN- ITY (mark 'X')
Woburn "G"	88 feet	approx. 1/4 mile upgradient (north) of site		X
Woburn "H"	84 feet	approx. 1/4 mile upgradient (north) of site		X
		Both wells shut down in 1979 due to chlorinated		
		hydrocarbon contamination		

I. RECEIVING WATER

1. NAME

☐ 2. SEWERS☐ 3. STREAMS/RIVERS

all wastes contained

☐ 4. LAKES/RESERVOIRS☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

XI. SOIL AND VEGETATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE☐ B. KARST ZONE☒ C. 100 YEAR FLOOD PLAIN☐ D. WETLAND☐ E. A REGULATED FLOODWAY☐ F. CRITICAL HABITAT☐ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. COVERED BURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
X	1. SAND				
X	2. CLAY				
X	3. GRAVEL				

XIII. SOIL PERMEABILITY

☒ A. UNKNOWN☐ B. VERY HIGH (100,000 to 1000 cm/sec.)☐ C. HIGH (1000 to 10 cm/sec.)☐ D. MODERATE (10 to .1 cm/sec.)☐ E. LOW (.1 to .001 cm/sec.)☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☐ 1. YES☐ 2. NO

3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES☐ 2. NO

3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE

2. SPECIFY DIRECTION OF SLOPE, CONDITION OF SLOPE, ETC.

J. OTHER GEOLOGICAL DATA

Continued From Front

XIV. PERMIT INFORMATION

List all applicable permits held by the site and provide the related information.

A. PERMIT TYPE (e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	D. DATE ISSUED (mo., day, & yr.)	E. EXPIRATION DATE (mo., day, & yr.)	F. IN COMPLIANCE (mark 'X')		
					1. YES	2. NO	3. UNKNOWN
None							

XV. PAST REGULATORY OR ENFORCEMENT ACTIONS

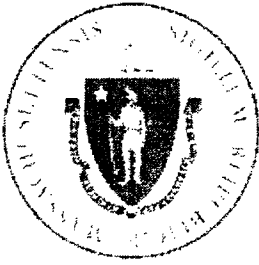
☒ NONE ☐ YES (summarize in this space)

NOTE: Based on the information in Sections III through XV, fill out the Tentative Disposition (Section II) information on the first page of this form.

INTERNAL DISTRIBUTION LIST - REGIONS

2. TYPE OF DOCUMENT (CHECK)

DATE: 02/12/00



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William Francis Galvin**

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Boston, MA 02108-1512
Telephone: (617) 727-9640

CLIFF BOUTWELL'S ABERJONA AUTO PARTS, INC. Summary Screen

Help with

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The exact name of the Domestic Profit Corporation: CLIFF BOUTWELL'S ABERJONA AUTO PARTS, INC.

Entity Type: Domestic Profit Corporation

Identification Number: 042400877

Date of Organization in Massachusetts: 11/23/1966

Date of Involuntary Dissolution: 08/31/1998

Current Fiscal Month / Day: 12 / 31

Previous Fiscal Month / Day:

The location of its principal office in Massachusetts:

No. and Street: 278 SALEM ST

City or Town: WOBURN

State: MA

Zip: 01801

Country: US

If the business entity is organized wholly to do business outside Massachusetts, the location of that office:

No. and Street:

City or Town:

State:

Zip:

Country:

Name and address of the Registered Agent:

Name:

No. and Street:

City or Town:

State:

Zip:

Country:

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	Expiration Date
PRESIDENT	WILLIAM E. BOUTWELL	106 THORNBERRY ROAD, WINCHESTER, MA USA 106 THORNBERRY ROAD, WINCHESTER, MA USA	
TREASURER	GRACE E. BOUTWELL	280 SALEM ST., WOBURN, MA USA 280 SALEM ST., WOBURN, MA USA	
SECRETARY	GRACE E. MORSE		

90 GRAY LN.,
BILLERICA, MA USA
90 GRAY LN.,
BILLERICA, MA USA

business entity stock is publicly traded:

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding Num of Shares
		Num of Shares	Total Par Value	
No Stock Information available online. Prior to August 27, 2001, records can be obtained on microfilm				

☐ Consent ☐ Manufacturer ☐ Confidential Data ☐ Does Not Require Annual Report
☐ Partnership ☐ Resident Agent ☒ For Profit ☐ Merger Allowed

Note: There is additional information located in the cardfile that is not available on the system.

Select a type of filing from below to view this business entity filings:

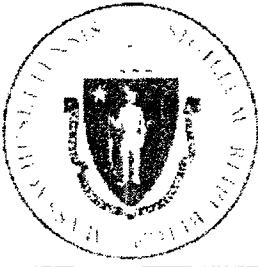
ALL FILINGS
 Administrative Dissolution
 Annual Report
 Application for Reinstatement
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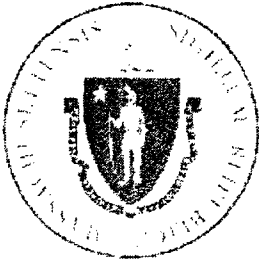


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Entity Name: CLIFF BOUTWELL'S ABERJONA AUTO PARTS, INC.

Request a Certified Copy Select All					
	Type of Filing	Year Filed	Filed Date	FilingNum	File(s)
<input type="checkbox"/>	Dissolution by Court Order or by the SOC		8/31/1998	020503229347	Index Number = 98243092 (0 pages)
<input type="checkbox"/>	Annual Report	1994	3/1/1996	020502590460	Index Number = 96018044 (1 pages)
<input type="checkbox"/>	Annual Report	1994	1/27/1995	020502353744	Index Number = 95006799 (1 pages)
<input type="checkbox"/>	Annual Report	1993	1/27/1995	020502353745	Index Number = 95006800 (1 pages)
<input type="checkbox"/>	Certificate of Change of Fiscal Year End		1/25/1993	020501897301	Index Number = 93000883 (1 pages)
<input type="checkbox"/>	Annual Report	1990	1/15/1993	020501889332	Index Number = 93003423 (1 pages)
<input type="checkbox"/>	Annual Report	1991	1/15/1993	020501889333	Index Number = 93003424 (1 pages)
<input type="checkbox"/>	Annual Report	1992	1/15/1993	020501889335	Index Number = 93003425 (1 pages)
<input type="checkbox"/>	Annual Report	1989	1/15/1993	020501889331	Index Number = 93003422 (1 pages)
<input type="checkbox"/>	Annual Report	1988	6/1/1989	020500409367	Index Number = 89051254 (1 pages)
<input type="checkbox"/>	Annual Report	1988	4/21/1989	020500409366	Index Number = 89037223 (1 pages)
<input type="checkbox"/>	Annual Report	1987	7/21/1988	020500409365	Index Number = 88067914 (1 pages)
<input type="checkbox"/>	Annual Report	1986	7/16/1987	020500409364	Index Number = 87059288 (1 pages)
<input type="checkbox"/>	Annual Report	1985	8/5/1986	020500409363	Index Number = 86057901 (1 pages)
<input type="checkbox"/>	Annual Report	1984	6/3/1985	020500409362	Index Number = 85038407 (1 pages)
<input type="checkbox"/>	Annual Report	1983	1/25/1984	020500409361	Index Number =

					84005850 (1 pages)
	Annual Report	1982	2/9/1983	020500409360	Index Number = 83002629 (1 pages)
	Certificate of Change of Directors or Officers		8/18/1982	020500409359	Index Number = 82106940 (0 pages)
	Annual Report	1981	3/24/1982	020500409358	Index Number = 82008010 (1 pages)
	Annual Report	1980	6/30/1981	020500409357	Index Number = 81002854 (1 pages)
	Annual Report	1979	6/30/1980	020500409356	Index Number = 80015688 (1 pages)
	Articles of Organization			000042400877	Index Number = None (0 pages)
<div>Request</div> <p>Annual Reports and No Fee changes have a retention period of ten years; therefore these documents are no longer available prior to December 31, 1993.</p>					
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Telephone: (617) 727-9640

CONSOLIDATED AUTO RECYCLERS, INC. Summary Screen

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The exact name of the Foreign Corporation: CONSOLIDATED AUTO RECYCLERS, INC.

Entity Type: Foreign Corporation

Identification Number: 010434231

Date of Registration in Massachusetts: 02/08/1990

Date of Involuntary Revocation: 11/14/1994

The is organized under the laws of: State: DE Country: USA on: 10/12/1989

Current Fiscal Month / Day: 12 / 31

Previous Fiscal Month / Day:

The location of its principal office:

No. and Street: RTE. 32

City or Town: E. VASSALBORO

State: ME

Zip: 04935

Country: US

The location of its Massachusetts office, if any:

No. and Street:

City or Town:

State:

Zip:

Country:

Name and address of the Registered Agent:

Name: DAY, BERRY & HOWARD

No. and Street: 260 FRANKLIN ST.,

City or Town: BOSTON

State: MA

Zip: Country: U

The officers and all of the directors of the corporation:

Title	Individual Name <small>First, Middle, Last, Suffix</small>	Address (no PO Box) <small>Address, City or Town, State, Zip Code</small>	Ex c
PRESIDENT	RODNEY RODRIGUE	RFD 1 BOX 520., MORRILL, ME USA RFD 1 BOX 520., MORRILL, ME USA	
TREASURER	WAYNE E. BOWERS SR.	BOX 750 PRIEST HILL RD.,N. VASSALBORO, ME USA	

BOX 750 PRIEST HILL RD.,N.
VASSELBORO, ME USA

business entity stock is publicly traded:

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding Num of Shares
		Num of Shares	Total Par Value	

No Stock Information available online. Prior to August 27, 2001, records can be obtained on microfilm

☐ Consent ☐ Manufacturer ☐ Confidential Data ☐ Does Not Require Annual Report
☐ Partnership ☒ Resident Agent ☒ For Profit ☐ Merger Allowed

Select a type of filing from below to view this business entity filings:

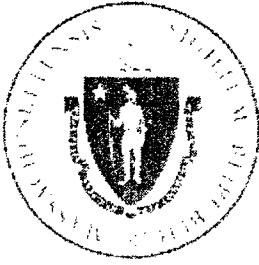
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 Annual Report
 Annual Report - Professional
 Application for Reinstatement

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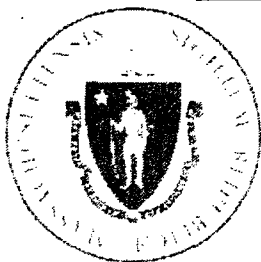
Entity Name: CONSOLIDATED AUTO RECYCLERS, INC.

Request a Certified Copy <small>Select All</small>					
	Type of Filing	Year Filed	Filed Date	FilingNum	File(s)
	Revocation by SOC		11/14/1994	020502303835	Index Number = 94318089 (0 pages)

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**CONSOLIDATED AUTO RECYCLERS OF MASSACHUSETTS, INC. Summary
Screen**

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The exact name of the Foreign Corporation: CONSOLIDATED AUTO RECYCLERS OF MASSACHUSETTS, INC.

Entity Type: Foreign Corporation

Identification Number: 000329726

Date of Registration in Massachusetts: 03/29/1990

Date of Involuntary Revocation: 11/14/1994

The is organized under the laws of: State: DE Country: USA on: 03/26/1990

Current Fiscal Month / Day: 12 / 31

Previous Fiscal Month / Day:

The location of its principal office:

No. and Street: ROUTE 32

City or Town: E. VASSALBORO

State: ME

Zip: 04935

Country: US

The location of its Massachusetts office, if any:

No. and Street:

City or Town:

State:

Zip:

Country:

Name and address of the Registered Agent:

Name: DAY, BERRY & HOWARD

No. and Street: 260 FRANKLIN ST.,

City or Town: BOSTON

State: MA

Zip: 02110

Country:

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	E
PRESIDENT	RODNEY RODRIGUE	RFD 1 BOX 520 MORRILL, MAINE 04952 RFD 1 BOX 520 MORRILL, MAINE 04952	
TREASURER	WAYNE E. BOWERS SR.		

BOX 750 PRIEST HILL RD., NO. VASSALBORO,
MAINE 04962
BOX 750 PRIEST HILL RD., NO. VASSALBORO,
MAINE 04962

business entity stock is publicly traded:

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding Num of Shares
		Num of Shares	Total Par Value	
No Stock Information available online. Prior to August 27, 2001, records can be obtained on microfilm				

☒ Consent ☐ Manufacturer ☐ Confidential Data ☐ Does Not Require Annual Report
☐ Partnership ☒ Resident Agent ☒ For Profit Merger Allowed

Select a type of filing from below to view this business entity filings:

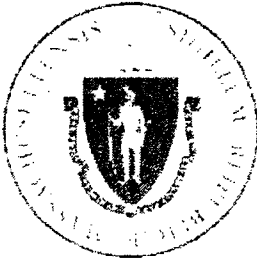
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Annual Report
Annual Report - Professional
Application for Reinstatement

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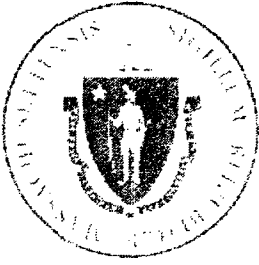
Entity Name: CONSOLIDATED AUTO RECYCLERS OF MASSACHUSETTS, INC.

Request a Certified Copy Select All					
	Type of Filing	Year Filed	Filed Date	FilingNum	File(s)
	Revocation by SOC		11/14/1994	020502302905	Index Number = 94318089 (0 pages)

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IMPORTS UNLIMITED, INC. Summary Screen

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The exact name of the Domestic Profit Corporation: IMPORTS UNLIMITED, INC.

Entity Type: Domestic Profit Corporation

Identification Number: 042808792

Old Federal Employer Identification Number (Old FEIN): 000201345

Date of Organization in Massachusetts: 12/19/1983

Date of Involuntary Dissolution: 12/31/1990

Current Fiscal Month / Day: 12 / 31

Previous Fiscal Month / Day:

The location of its principal office in Massachusetts:

No. and Street: 280 SALEM ST.

City or Town: WOBURN

State: MA

Zip: 01890

Country: US

If the business entity is organized wholly to do business outside Massachusetts, the location of that office:

No. and Street:

City or Town:

State:

Zip:

Country:

Name and address of the Registered Agent:

Name:

No. and Street:

City or Town:

State:

Zip:

Country:

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	Ex c
PRESIDENT	WILLIAM E. BOUTWELL	106 THORNBERRY RD., WINCHESTER, MA USA 106 THORNBERRY RD., WINCHESTER, MA USA	
TREASURER	WILLIAM E. BOUTWELL	106 THORNBERRY RD., WINCHESTER, MA USA	

		106 THORNBERRY RD., WINCHESTER, MA USA	
SECRETARY	WILLIAM E. BOUTWELL	106 THORNBERRY RD., WINCHESTER, MA USA 106 THORNBERRY RD., WINCHESTER, MA USA	

business entity stock is publicly traded: ☐

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding
		<i>Num of Shares</i>	<i>Total Par Value</i>	<i>Num of Shares</i>
No Stock Information available online. Prior to August 27, 2001, records can be obtained on microfilm				

☐ Consent ☐ Manufacturer ☐ Confidential Data ☐ Does Not Require Annual Report
☐ Partnership ☐ Resident Agent ☒ For Profit ☐ Merger Allowed

Note: There is additional information located in the cardfile that is not available on the system.

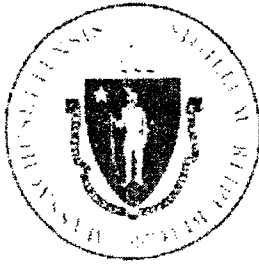
Select a type of filing from below to view this business entity filings:

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 Annual Report
 Application for Reinstatement
 Application For Revival

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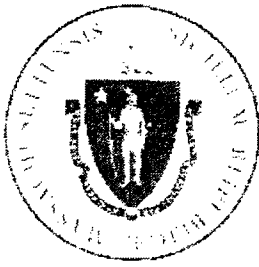
Entity Name: IMPORTS UNLIMITED, INC.

Request a Certified Copy Select All	Type of Filing	Year Filed	Filed Date	FilingNum	File(s)
	Annual Report	1981	4/24/1987	020501257979	Index Number = 87036975 (1 pages)
	Annual Report	1985	4/13/1987	020501257978	Index Number = 87029088 (1 pages)
	Annual Report	1984	8/19/1985	020501257977	Index Number = 85051867 (1 pages)
	Certificate of Change of Fiscal Year End		3/27/1984	020501257976	Index Number = 84001379 (0 pages)
	Articles of Organization		12/19/1983	020501257975	Index Number = 83353048 (0 pages)
	Articles of Organization		12/19/1983	000042808792	Index Number = None (0 pages)

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MASSACHUSETTS AUTOMOTIVE COMPENSATION CORPORATION
Summary Screen

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The exact name of the Nonprofit Corporation: MASSACHUSETTS AUTOMOTIVE COMPENSATION CORPORATION

Merged into WHOLESALE/RETAIL SUPPLIERS COMPENSATION CORPORATION on 10/23/2006

Entity Type: Nonprofit Corporation

Identification Number: 043260387

Old Federal Employer Identification Number (Old FEIN): 000485634

Date of Organization in Massachusetts: 12/27/1994

Date of Merger: 10/23/2006

Current Fiscal Month / Day: 1

Previous Fiscal Month / Day:

The location of its principal office in Massachusetts:

No. and Street: TPA ASSOCIATES, INC.
10 NEW ENGLAND BUS. CTR. #303
City or Town: ANDOVER

State: MA Zip: 01810 Country:

If the business entity is organized wholly to do business outside Massachusetts, the location of that office:

No. and Street:
City or Town: State: Zip: Country:

The name and address of the Resident Agent:

Name:
No. and Street:
City or Town: State: Zip: Country:

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	Expiration Date
PRESIDENT	WILLIAM ERNEST BOUTWELL	280 SALEM ST.,	

		WOBURN, MA 01801 USA 280 SALEM ST., WOBURN, MA 01801 USA	
TREASURER	JOY RIVOLLIER	280 SALEM ST., WOBURN, MA 01801 USA 280 SALEM ST., WOBURN, MA 01801 USA	
CLERK	JOY RIVOLLIER	60 ARSENAL ST., WATERTOWN, MA 02172 USA 60 ARSENAL ST., WATERTOWN, MA 02172 USA	

☐ Consent ☐ Manufacturer ☐ Confidential Data ☐ Does Not Require Annual Rej
☐ Partnership ☐ Resident Agent ☐ For Profit ☐ Merger Allowed

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 Articles of Consolidation - Foreign and Domestic

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Secretary of the Commonwealth
One Ashburton Place, Boston, Massachusetts 02108-1512
Telephone: (617) 727-9640

FEE: \$15.00

M.G.L. Ch.180
Corporation
Annual Report

ANNUAL REPORT

060007513

FEDERAL IDENTIFICATION

Filing for November 1, 20 05

NO. 04-3260387

In compliance with the requirements of Section 26A of Chapter one hundred and eighty (180) of the General Laws:

1. NAME: Massachusetts Automotive Compensation Corporation
2. ADDRESS: c/o Meadowbrook/TPA Associates, 10 New England Business Center, Suite 303
(number) (street)
Andover, MA 01810
(city or town) (state) (zip)
3. DATE OF THE LAST ANNUAL MEETING: March 31, 2004
4. State the names and addresses of all officers, including all the directors of the corporation, and the date on which the term of office of each expires: (PLEASE TYPE OR PRINT).
5. If the corporation is a cemetery corporation, check if it holds perpetual care funds in trust. ☐ Attach a copy of the written instrument establishing the trust and any amendments thereto.

NAME OF OFFICE	NAME	ADDRESSES Number, Street, City or Town, State and Zip Code	EXPIRATION OF TERM OF OFFICE
President:	William Ernest Boutwell	244 Maplewood Road, Weare, NH 03281	Mar. 2005
Treasurer:	James C. Emery	32 Hickory Lane, Windham, NH 03087	Mar. 2005
Clerk: (or Secretary)	Joy Rivollier	1 Coes Square, Worcester, MA 01603	Mar. 2005
Directors: (or Officers having the powers of Directors)	See attached list.		

I, the undersigned William Ernest Boutwell being the President of the above-named corporation, in compliance with General Laws, Chapter 180, hereby certify that the information above is true and correct as of the dates shown.

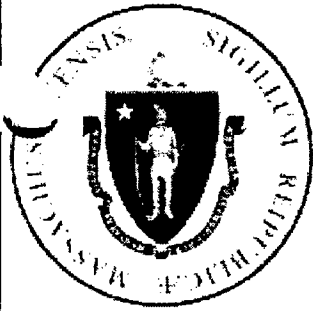
IN WITNESS WHEREOF AND UNDER PENALTIES OF PERJURY, I hereto sign my name on this 10th day of MAY, 20 06.

Signature: [Signature] Title: President

Contact Person: Nina DiTrapani Contact Person Telephone #: 978-933-4155

MASSACHUSETTS AUTOMOTIVE COMPENSATION CORPORATION
MASSACHUSETTS ANNUAL REPORT
04-3260387
12/31/04

<u>DIRECTORS</u>	<u>ADDRESS</u>	<u>EXPIRATION OF TERM</u>
William Ernest Boutwell	244 Maplewold Road Weare, NH 03281	DEC. 2007
Joy Rivollier	One Coes Square Worcester, MA 01603	DEC. 2007
James C. Emery	32 Hickory Lane Windham, NH 03087	DEC. 2007

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William Francis Galvin**

Secretary of the Commonwealth
One Ashburton Place, Boston, Massachusetts 02108-1512
Telephone: (617) 727-9640

ABERJONA AUTO PARTS, INC. Summary Screen

Help with this form

[Request a Certificate](#)**The exact name of the Domestic Profit Corporation:** ABERJONA AUTO PARTS, INC.**Entity Type:** Domestic Profit Corporation**Identification Number:** 043378391**Old Federal Employer Identification Number (Old FEIN):** 000582117**Date of Organization in Massachusetts:** 07/10/1997**Current Fiscal Month / Day:** 12 / 31**Previous Fiscal Month / Day:** 00 / 00**The location of its principal office in Massachusetts:**No. and Street: 278 SALEM ST.City or Town: WOBURNState: MAZip: 01801Country: USA**If the business entity is organized wholly to do business outside Massachusetts, the location of that office:**

No. and Street:

City or Town:

State:

Zip:

Country:

Name and address of the Registered Agent:

Name:

No. and Street:

City or Town:

State:

Zip:

Country:

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	Expiration of Term
PRESIDENT	MICHAEL W. BOUTWELL	278 SALEM ST., WOBURN, MA 01801 USA 278 SALEM ST., WOBURN, MA 01801 USA	
TREASURER	MICHAEL W. BOUTWELL	278 SALEM ST., WOBURN, MA 01801 USA 278 SALEM ST., WOBURN, MA 01801 USA	
SECRETARY	MICHAEL W. BOUTWELL	278 SALEM ST., WOBURN, MA 01801 USA 278 SALEM ST., WOBURN, MA 01801 USA	

business entity stock is publicly traded: ☐**The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:**

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding <i>Num of Shares</i>
		<i>Num of Shares</i>	<i>Total Par Value</i>	

No Stock Information available online. Prior to August 27, 2001, records can be obtained on microfilm.

☐ Consent ☐ Manufacturer ☐ Confidential Data ☐ Does Not Require Annual Report
☒ Partnership ☐ Resident Agent ☒ For Profit ☐ Merger Allowed

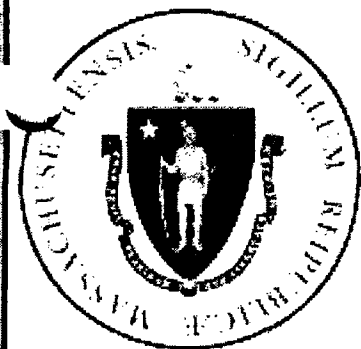
Select a type of filing from below to view this business entity filings:**ALL FILINGS**

Administrative Dissolution
 Annual Report
 Application for Reinstatement
 Application For Revival

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Telephone: (617) 727-9640

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Entity Name: ABERJONA AUTO PARTS, INC.

Request a Certified Copy Select All <input type="checkbox"/>	Type of Filing	Year Filed	Filed Date	FilingNum	File(s)
<input type="checkbox"/>	<u>Annual Report</u>	1997	5/12/1998	020503120393	Index Number = 98087398 (1 pages)
<input type="checkbox"/>	<u>Articles of Organization</u>		7/10/1997	020502933100	Index Number = 97191011 (6 pages)

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therefore these documents are no longer available prior to December 31, 1993.

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[FREE Business Profile](#)**Callahans Auto Service****Location Info:**

278 Salem Street, Woburn, MA 01801

[map](#) | [driving directions](#)**Contact Info:**

(781) 933-3303

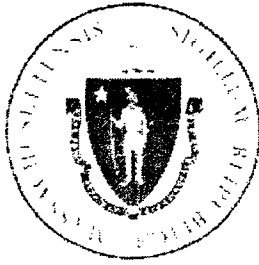
Appears in the Category:[Auto Service & Repair](#)**Products & Services:**

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The Commonwealth of Massachusetts
William Francis Galvin

Secretary of the Commonwealth, Corporations Division
 One Ashburton Place, 17th floor
 Boston, MA 02108-1512
 Telephone: (617) 727-9640

CALLAHAN'S AUTO SERVICE, INC. Summary Screen

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The exact name of the Domestic Profit Corporation: CALLAHAN'S AUTO SERVICE, INC.

Entity Type: Domestic Profit Corporation

Identification Number: 000908445

Date of Organization in Massachusetts: 01/01/2006

Current Fiscal Month / Day: 12 / 31

The location of its principal office in Massachusetts:

No. and Street: 278 SALEM ST.

City or Town: WOBURN

State: MA

Zip: 01801

Country: US.

If the business entity is organized wholly to do business outside Massachusetts, the location of that off

No. and Street:

City or Town:

State:

Zip:

Country:

Name and address of the Registered Agent:

Name: JOHN H. CALLAHAN

No. and Street: 278 SALEM ST.

City or Town: WOBURN

State: MA

Zip: 01801

Country: U

The officers and all of the directors of the corporation:

Title	Individual Name First, Middle, Last, Suffix	Address (no PO Box) Address, City or Town, State, Zip Code	Ex c
PRESIDENT	JOHN H. CALLAHAN	9 PENNY RD. WOBURN, MA 01801 USA	
TREASURER	HOLLY A. CALLAHAN	9 PENNY RD. WOBURN, MA 01801 USA	
SECRETARY	HOLLY A. CALLAHAN	9 PENNY RD. WOBURN, MA 01801 USA	

DIRECTOR	SAME TWO ABOVE	SAME SAME, MA 01801 USA	
----------	----------------	----------------------------	--

business entity stock is publicly traded: ☐

The total number of shares and par value, if any, of each class of stock which the business entity is authorized to issue:

Class of Stock	Par Value Per Share Enter 0 if no Par	Total Authorized by Articles of Organization or Amendments		Total Issued and Outstanding Number of Shares
		Num of Shares	Total Par Value	
CNP	\$0.00000	1,000	\$0.00	0

☐ Consent ☐ Manufacturer ☐ Confidential Data ☐ Does Not Require Annual Report
☐ Partnership ☐ Resident Agent ☐ For Profit ☐ Merger Allowed

Select a type of filing from below to view this business entity filings:

ALL FILINGS
 Administrative Dissolution
 Annual Report
 Application for Reinstatement
 Application For Revival

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D

The Commonwealth of Massachusetts

William Francis Galvin
Secretary of the Commonwealth
One Ashburton Place, Boston, Massachusetts 02108-1512

FORM MUST BE TYPED

Articles of Organization (General Laws Chapter 156D; Section 2.02; 950 CMR 113.16)

FORM MUST BE TYPED

ARTICLE I

The exact name of the corporation is:

Callahan's Auto Service, Inc.

ARTICLE II

Unless the articles of organization otherwise provide, all corporations formed pursuant to G.L. C156D have the purpose of engaging in any lawful business. If you wish to specify more limited purposes, state them below.

Specializing in automotive repair services.

ARTICLE III

State the total number of shares and par value, * if any, of each class of stock that the corporation is authorized to issue. All corporations must authorize stock. If only one class or series is authorized, it is not necessary to specify any particular designation.

WITHOUT PAR VALUE		WITH PAR VALUE		
TYPE	NUMBER OF SHARES	TYPE	NUMBER OF SHARES	PAR VALUE
Common	1,000			

*General Laws Chapter 156D eliminates the concept of par value, however, a corporation may specify par value in Article III. See section 6.21 and the comments relative thereto.

ARTICLE IV

Prior to the issuance of shares of any class or series, the articles of organization must set forth the preferences, limitations and relative rights of that class or series. The articles may also limit the type or specify the minimum amount of consideration for which shares of any class or series may be issued. Please set forth the preferences, limitations and relative rights of each class or series and, if desired, the required type and minimum amount of consideration to be received.

Not Applicable.

ARTICLE V

The restrictions, if any, imposed by the articles or organization upon the transfer of shares of any class or series of stock are:

See Continuation Sheet 5A.

ARTICLE VI

Other Lawful Provisions; if there are no such provisions, this article may be left blank or state "None."

See Continuation Sheet 6A.

Note: The preceding six (6) articles are considered to be permanent and may ONLY be changed by filing appropriate Articles of Amendment

ARTICLE VII

Unless otherwise provided in the articles of organization, the effective date of organization of the corporation is the date and time the articles were received for filing if the articles are not rejected within the time prescribed by law. If a later effective date is desired, specify such date, which may not be later than the 90th day after the articles are received for filing: January 1, 2006.

ARTICLE VIII

The information contained in this article is not a permanent part of the articles of organization.

- a. The street address of the initial registered office of the corporation in the commonwealth:

278 Salem Street, Woburn, MA 01801

- b. The name of its initial registered agent at its registered office: John H. Callahan

- c. The names and addresses of the individuals who will serve as the initial directors, president, treasurer and secretary of the corporation:

	NAME	ADDRESS
President:	John H. Callahan	9 Penny Road, Woburn, MA 01801
Treasurer:	Holly A. Callahan	9 Penny Road, Woburn, MA 01801
Secretary:	Holly A. Callahan	9 Penny Road, Woburn, MA 01801
Director(s):	John H. Callahan	9 Penny Road, Woburn, MA 01801
	Holly A. Callahan	9 Penny Road, Woburn, MA 01801

- d. The fiscal year end of the corporation: December 31

- e. A brief description of the type of business in which the corporation intends to engage: Automotive Repair

- f. The street address of the principal office of the corporation is: 278 Salem Street, Woburn, MA

- g. The street address where the records of the corporation required to be kept in the commonwealth are located:

278 Salem Street, Woburn, MA 01801

(number, street, city or town, state, zip code)

, which is

- ☒ its principal office;
☐ or an office of its transfer agent;
☐ its secretary/assistant secretary;
☐ or its registered agent.

Signed this 25th day of OCTOBER, 2005 by the incorporators whose name and address are listed below:

Signature: John H. Callahan

Name: John H. Callahan

Address: 9 Penny Road, Woburn, MA 01801

CONTINUATION SHEET 5A

5. Any Stockholder, including the heirs, executors, administrators, or assigns of a deceased Stockholder, desiring to sell or transfer such stock owned by him or them shall first offer it to the Corporation through the Board of Directors in the following manner:
- a) He shall notify the Directors of his desire to sell or transfer such stock by notice in writing, which shall contain the price at which he is willing to sell or transfer, and the name of one arbitrator. The Directors shall within thirty (30) days thereafter either accept the offer, or by notice to him in writing name a second arbitrator, and the two arbitrators so nominated shall in turn name a third. It shall then be the duty of the three arbitrators to ascertain the value of the stock, and if any arbitrator shall neglect or refuse to appear at any meeting appointed by the arbitrators, a majority of the arbitrators present may act in the absence of such arbitrator.
 - b) After the acceptance of the offer, or the report of the arbitrators as to the value of the stock, the Directors shall have thirty (30) days within which to purchase the same at such valuation, but if at the expiration of thirty (30) days the corporation shall not have exercised the right to so purchase, the owner of the stock shall be at liberty to dispose of the same in any manner he may see fit.
 - c) No shares of stock shall be sold or transferred on the books of the Corporation until these provisions have been complied with, but the Board of Directors may in any particular instance waive the requirement.
 - d) The Executors or Administrators of a deceased Stockholder shall be required to offer the stock of the deceased Stockholder to the Corporation in accordance with these restrictions or within nine (9) months from the date of death of said Stockholder.

CONTINUATION SHEET 6A

6. Other lawful provisions for the conduct or regulation of the business and affairs of the Corporation, for its voluntary dissolution, or for limiting, defining, or regulating the powers of the Corporation, or of its Directors or Stockholders, or any class of Stockholders, are as follows:

- a) The Directors may make, amend, or repeal the By-laws in whole or in part except with respect to any provision thereof which by law or the By-Laws requires action of the Stockholders;
- b) Meetings of the Stockholders may be held anywhere in the United States;
- c) The Corporation may be a partner in any business enterprise it would have the power to conduct by itself;
- d) No person shall be disqualified from holding any office by reason of any interest. In the absence of fraud by any Director, Officer, or Stockholder of this Corporation individually or any individual having any interest in any concern in which any such Directors, Officers, Stockholders, or individuals have any interest, may be a party to or may be pecuniarily or otherwise interested in any contract, transaction or other act of this Corporation, and
 - (1) Such contract, transaction, or act shall not in any way be invalidated or otherwise affected by that fact;
 - (2) No such Director, Officer, Stockholder, or individual shall be liable to account to this Corporation for any profit or benefit realized through any such contract, transaction or act; and
 - (3) Any such Director of this Corporation may be counted in the existence of a quorum of any meeting of the Directors or of any Committee thereof which shall authorize any such Contract, transaction or act and may vote to authorize the same.

The term "interest" includes personal interest and interest as a Director, Officer, Stockholder, Shareholder, Trustee, member or beneficiary of any concern.

The term "concern" means any Corporation, association, trust, partnership, firm, person, or other entity other than this Corporation.

5008

COMMONWEALTH OF MASSACHUSETTS

William Francis Galvin
Secretary of the Commonwealth
One Ashburton Place, Boston, Massachusetts 02108-1512

Articles of Organization (General Laws, Chapter 156D)

I hereby certify that upon examination of these Articles of Organization, duly submitted to me, it appears that the provisions of the General Laws relative to the organization of corporations have been complied with, and I hereby approve said articles; and the filing fee in the amount of \$275 having been paid, said articles are deemed to have been filed with me this 27th day of October 20 08 at 1:35 a.m._{time}

Effective date: January 1, 2006
(must be within 90 days of filing submitted)

William Francis Galvin

WILLIAM FRANCIS GALVIN
Secretary of the Commonwealth

Examiner
CP
Name approval

C

M

Filing fee: \$275.00 for up to 275,000 shares plus \$100 for each additional 100,000 shares or any fraction thereof.

TO BE FILLED IN BY CORPORATION Contact Information:

John J. Gulde, Jr.

35 Center Street

Burlington, MA 01803

Telephone: (781) 272-0900

Email: JGulde@Sheamurphygulde.com

A copy of this filing will be available on-line at www.sec.state.ma.us/cor once the document is filed.

950916

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Boston Herald

11-23-05

BOUTWELL

In Woburn, November 21, 2005, Clifford C., Beloved husband of the late Grace E. (Pauling) Boutwell. Devoted father of Robert C. Boutwell, M.D. of Jamaica Plain, William E. Boutwell and his wife Carol (Gulliano) of RI and NH., Grace P. Morse and her husband Earland W. Tuttle, Jr. of Chelmsford, Nancy A. Murphy and her husband William E. of Florida and the late Linda Ann Boutwell. Loving brother of Terence Kenney, Dorothy Kinosky and Anna Leek, all of Woburn. Dear brother-in-law of Thomas Callahan of Woburn. Cherished grandfather of ten grandchildren and twenty-two great grandchildren. Funeral from the **Lynch-Cantillon Funeral Home, 263 Main Street, WOBURN**, on Saturday, November 26 at 9:00AM. Funeral Mass in St. Joseph's Church, 100 Washington Street, East Woburn at 10:00AM. Calling hours, Friday from 4:00 to 8:00PM. Interment in Woodbrook Cemetery, Woburn. Donations may be made in Cliff's memory to the Boys & Girls Club of Woburn, Inc. Charles Gardner Lane, Woburn, MA 01801. (Obituary, directions and guest book at www.lynch-cantillon.com)

Lynch-Cantillon Funeral Home
(781) 933-0400



Customer-Focused Solutions

TECHNICAL MEMORANDUM

TRC PROJECT NUMBER: 02136-0390-01469

TO: Joseph F. LeMay, PE, EPA Remedial Project Manager

FROM: David M. Sullivan, LSP, CHMM, TRC Environmental Corporation

CC: Diane M. Silverman, Ph.D., Metcalf & Eddy, Incorporated
Joanna M. Hall, TRC Environmental Corporation

SUBJECT: Potential Sources of Contamination – Aberjona Autoparts Property
Wells G&H Superfund Site, Woburn, Massachusetts

Per your request, TRC Environmental Corporation (TRC) has evaluated potential sources of contamination at the Aberjona Autoparts Property (Aberjona) based on available data and lines of evidence.

The automotive repair and fueling facility activities are most likely related to the observed site contamination detected at the Aberjona property. The chemical contaminants identified in soil and groundwater at the Aberjona Auto Parts facility include, for example, petroleum constituents, chlorinated volatile organic compounds (VOCs), and polyaromatic hydrocarbons (PAHs), as illustrated on Figures S-1 through S-4 for soil and GW-1 through GW-4 for groundwater. Insufficient historical operation, chemical use, or forensic analytical information or spill reports are available to clearly tie the Aberjona Auto Parts operations to the direct detection of these chemical compounds; therefore the next best source of origin was used. In particular, TRC compared the chemicals detected to published information about the types of operations and chemicals associated with Aberjona Auto Part's general line of business.

Information on the general types of contaminants likely to be present at automotive repair, servicing and salvage, are set forth in *Technical Approaches to Characterizing and Cleaning up Automotive Repair Sites under the Brownfields Initiative* (EPA/625/R-98/008, February 1999) and the *Handbook of Environmental Contaminants - A Guide for Site Assessment* (C. Shineldecker, 1992, Lewis Publishers). Environmentally important operations at these types of facilities include automotive repair, using solvents for cleaning engine parts, and metals and/or organics from body repairs, automotive maintenance, including the changing of automotive fluids such as oil, antifreeze, and transmission fluids, and recycling activities, including those involving automotive parts, solvents, and battery core handling.

Underground storage tanks (USTs) were often used at automotive shops that had fuel-dispensing pumps, which is true of the Aberjona property. USTs at Aberjona were used to store gasoline and diesel fuel in bulk volume on the site, and the fuel may have leaked into the underlying soils and groundwater. Paved areas, such as parking areas and outside service bays, may have contributed to runoff of petroleum contaminants to nearby areas. Pump islands may be a secondary source of contamination from spilled gasoline. Additional areas might include scrap and used car storage areas, and tire storage areas, both of which were prevalent at Aberjona.

Common chemical wastes from automotive repair and maintenance operations include oil and grease, solvents from parts cleaning and repair work, VOCs and semivolatile organic compounds (SVOCs) from automotive fluids, and metals from automotive bodywork. Another common chemical may be ethylene glycol, associated with antifreeze. The most common VOCs include benzene, toluene, ethyl benzene, and xylene (BTEX), trichloroethene, methylene chloride, Freon, methyl ethyl ketone, and certain petroleum hydrocarbon fractions. SVOCs are typically associated with petroleum products (e.g., oils, lubricants, fuels). Commonly encountered metals include lead, cadmium, chromium, and aluminum. If the facility performed painting operations, VOCs such as toluene and methylene chloride, are typical contaminants associated with painting operations. Site operations may also have used an area of the Aberjona property for storage drums that may have contained petroleum and/or solvent products, battery casings, paints, waste oil, and sludges. The contaminants detected in soil and groundwater at Aberjona (selectively summarized in Figures S-1 through S-4 for soil and GW-1 through GW-4 for groundwater attached herein) are also consistent with this conceptual framework.

The lines of evidence that suggest that Aberjona Auto Parts may have had a role in the observed site contamination are as follow:

- 1) Trichloroethene was detected at high levels in shallow bedrock near a portion of the site (AB-2R) where there is anecdotal evidence that they conducted degreasing. The use of TCE for degreasing is well known and is a common contaminant of auto fueling and repair facilities.
- 2) Several other contaminants identified in site soil and groundwater are also commonly used by auto fueling and repair facilities including petroleum, BTEX compounds, and PAHs.
- 3) The highest concentration of TCE in groundwater in the area is located near the central portion of the Aberjona Auto Parts facility. Upgradient locations appear to have much lower levels indicating that this may be a source area rather than a continuous plume encroaching onto the Aberjona site.

- 4) There are few, if any, contaminants identified in site soils or groundwater that are not associated with typical auto fueling and repair facilities.
- 5) The Aberjona facility operated during a period when environmental controls were not as rigorous and it was unlikely that secondary containment and leak detection systems were utilized.

Countering the assertion that Aberjona Auto Parts is a likely source is the lack of chlorinated solvents detected in soil. However, this is not surprising considering that only a few samples have been collected and chlorinated solvents are volatile and would disappear from soil over time. In addition, the soil samples may not be located in the actual release area(s). A further countering assertion is that during a prior investigation by Ecology & Environment, Incorporated (E&E) in 1980, they indicated that the degreasing product used was manufactured by ZEP and did not contain chlorinated solvents. However, ZEP is a major manufacturer of solvents. The fact that a ZEP product without chlorinated solvents was identified at Aberjona at the time of the 1980 E&E investigation does not preclude the past use of chlorinated solvent degreasers at the site or that other degreasers may have also been in use that were not logged by E&E.

Alternative source areas for some of the observed contamination might include the two sewer lines that cross the site. However, the gravity-fed sewer lines are generally situated below the groundwater table, and are therefore less likely to contribute to shallow groundwater contamination. The present sampling data are insufficient to confirm this potential. Lacking another source of chlorinated solvents that could plausibly deposit TCE at the concentrations detected in wells AB-2M and AB-2R, Aberjona site operations remain a highly likely source of TCE contamination, extraordinary circumstances aside. This assessment may be re-evaluated should additional information be obtained.

Please call or write if we can be of additional service.

DRAFT

Sample Loc	Depth	Ethylbenz	Toluene	Xylenes	2-Methylnap
B-14-5-6-5	5 U	7.5 U	5 U	-	-
B-18-5-10-5	5 U	7.5 U	5 U	-	-
B-24-4-6-5	5 U	7.5 U	5 U	-	-
B-4-2-2	5 U	7.5 U	5 U	-	-
B-4-10-12	10 U	15 U	190	760	-
B-5-7-10	10 U	32	88	-	-
B-5-13-15	10 U	10 U	10 U	330 U	-
B-6-7-11	38	90	230	3300 U	-
B-6-8-10	5 U	7.5 U	5 U	-	-
B-7-8-10	5 U	7.5 U	5 U	-	-
B-8-2-2	6 U	7.5 U	5 U	-	-
B-8-6-8	7.5 U	11 U	7.5 U	-	-
B-8-7-8	10 U	84	73	3300 U	-
B-8-8-12	180	210	790	2260	-
B-9-6-10	10 U	10 U	10 U	330 U	-
B-9-8-10	5 U	7.5 U	5 U	-	-
B-10-4-8	10 U	10 U	10 U	330 U	-
B-10-8-10	10 U	10 U	10 U	330 U	-
B-10-10-12	5 U	7.5 U	5 U	-	-
B-10-10-14	10 U	10 U	10 U	330 U	-
B-11-6-8	5 U	7.5 U	5 U	-	-
B-11-10-12	5 U	7.5 U	5 U	-	-
B-12-4-8	10 U	10 U	10 U	330 U	-
B-12-8-10	5 U	7.5 U	5 U	-	-
B-12-8-12	10 U	10 U	10 U	330 U	-
B-13-10-2	10 U	15 U	10 U	-	-
B-13-16-10	10 U	15 U	10 U	-	-
B-14-7-5-4-5	500 U	750 U	1300	-	-
B-14-7-5-10-5	200 U	380	580	-	-
B-16-17-14	5 U	7.5 U	5 U	-	-
B-16-18-10	5 U	7.5 U	5 U	-	-
B-18-10-12	5 U	7.5 U	5 U	-	-
B-17-2-4	250 U	250 U	250 U	-	-
B-18-2-2	230 U	230 U	230 U	-	-
B-18-4-6	250 U	250 U	250 U	-	-
B-19-5-8	980 U	980 U	980 U	-	-
B-20-5-8	5 U	5 U	5 U	-	-
B-26-4-6	250 U	250 U	250 U	-	-
CHI-12-4	10 U	10 U	10 U	-	-
CHI-24-6	10 U	10 U	10 U	-	-
CHI-3-8	10 U	10 U	10 U	-	-
CHI-4-2-4	10 U	10 U	10 U	-	-
CHI-5-2-4	10 U	10 U	10 U	-	-
CHI-8-2-4	10 U	10 U	10 U	-	-

Sample Loc	Depth	Ethylbenz	Toluene	Xylenes	2-Methylnap
CHI-7-2	10 U	10 U	10 U	-	-
CHI-9-7	10 U	10 U	10 U	-	-
MR-10-2	2.1 U	2 U	2.1 U	270 UJ	-
MR-13-5.5	2.2 U	2.2 U	2.2 U	270 UJ	-
MR-SS1-0-0-5	1.6 J	1.3 J	1.5 J	345 U	-
MR-SS1-4-5	2.9 U	0.8 J	8.3	407 U	-
MR-SS2-0-0-5	2.4 U	1.2 J	4.3	35 J	-
MR-SS2-4-5	1687 J	3114 J	10640	1873 J	-
MR-SS3-0-0-5	3.7	7.7	19.5	69 J	-
MR-SS3-4-5	8	14 J	16.5	402 U	-
MR-SS4-5	2.7 U	1.4 J	0.9 J	392 U	-
MW-01-8-10	5 U	5 U	5 U	-	-
MW-02-7-4	5 U	5 U	5 U	-	-
MW-03-10-12	5 U	5 U	5 U	-	-
MW-04-10-12	5 U	5 U	5 U	-	-
MW-05-10-12	5 U	5 U	5 U	-	-
MW-06-10-2	5 U	5 U	5 U	-	-
MW-07-2-5-4-5	5 U	7.5 U	5 U	-	-
MW-08-10-12	7600	12000	48000	-	-
MW-09-10-12	5 U	7.5 U	5 U	-	-
MW-11-4-8	5 U	7.5 U	5 U	-	-
MW-11-5-10	5 U	7.5 U	5 U	-	-
MW-14-4-6	810	1700	5200	-	-
MW-15-4-6	250 U	250 U	250 U	-	-
W-5-10-2	5 U	5 U	5 U	-	-
W-5-10-8	10 U	10 U	10 U	-	-
W-5-11-10-12	5 U	5 U	5 U	-	-
W-5-12-10-12	10 U	10 U	10 U	-	-
W-5-13-10-12	10 U	10 U	10 U	-	-
W-5-13-10-8	10 U	10 U	10 U	-	-
W-5-13-10-12	10 U	10 U	10 U	-	-
W-5-14-10-12	10 U	10 U	10 U	-	-
W-5-14-10-8	10 U	10 U	10 U	-	-
W-5-14-10-12	10 U	10 U	10 U	-	-
W-5-15-10-12	10 U	10 U	10 U	-	-
W-5-15-10-8	10 U	10 U	10 U	-	-
W-5-15-10-12	10 U	10 U	10 U	-	-
W-5-16-10-12	10 U	10 U	10 U	-	-
W-5-16-10-8	10 U	10 U	10 U	-	-
W-5-16-10-12	10 U	10 U	10 U	-	-
W-5-17-10-12	10 U	10 U	10 U	-	-
W-5-17-10-8	10 U	10 U	10 U	-	-
W-5-17-10-12	10 U	10 U	10 U	-	-
W-5-18-10-12	10 U	10 U	10 U	-	-
W-5-18-10-8	10 U	10 U	10 U	-	-
W-5-18-10-12	10 U	10 U	10 U	-	-
W-5-18-10-4-6	2 U	2 U	2 U	-	-

WB-12	0-1	Dec-02	1-2	Dec-02
Ethylbenz	51 U	45 U	-	-
Toluene	51 U	45 U	-	-
Xylenes	100 U	88	-	-
2-Methylnap	145 J	73	-	-

WB-15	0-2	Dec-02
Ethylbenz	2.1 U	-
Toluene	2.1 U	-
Xylenes	2.1 U	-
2-Methylnap	2.1 U	-

WB-SS1	0-0.5	Sep-03	3-4	Sep-03
Ethylbenz	0.8 J	0.7 J	-	-
Toluene	0.8 J	0.7 J	-	-
Xylenes	1.3 J	2.7 U	-	-
2-Methylnap	392 U	402 U	-	-

WB-08	0-2	Nov-02	2-4	Nov-02
Ethylbenz	12	500	-	-
Toluene	48 U	93	-	-
Xylenes	9.7	990	-	-
2-Methylnap	130 J	8400 J	-	-

AB-SS3-0-0-5	Sep-03	4-5	Sep-03
Ethylbenz	16	2.9 U	-
Toluene	22.1	1.9 J	-
Xylenes	162.2	0.7 J	-
2-Methylnap	1418	387 U	-

AB-SS3-0-0-5	Sep-03	4-5	Sep-03
Ethylbenz	2.5 U	3.3 U	-
Toluene	2.5 U	3.3 U	-
Xylenes	2.5 U	3.3 U	-
2-Methylnap	3.5 J	406 U	-

AB-SS3-0-0-5	Sep-03	4-5	Sep-03
Ethylbenz	1.5 J	1.2 J	-
Toluene	1.4 J	0.9 J	-
Xylenes	8	1.1 J	-
2-Methylnap	347 U	513 U	-

AB-16	0-2	Nov-02	0-2	Nov-02
Ethylbenz	1.8 U	34 U	-	-
Toluene	1.4 J	34 U	-	-
Xylenes	1.4 J	68 U	-	-
2-Methylnap	270 U	62 U	-	-

AB-18	0-2	Nov-02	0-2	Nov-02
Ethylbenz	1.7 U	-	-	-
Toluene	1.7 U	-	-	-
Xylenes	1.7 U	-	-	-
2-Methylnap	270 U	590 UJ	1200 UJ	-

AB-SS3-0-0-5	Sep-03	4-5	Sep-03
Ethylbenz	2.6 U	3.9 J	-
Toluene	2.6 U	4.2	-
Xylenes	2.6 U	27.1	-
2-Methylnap	347 U	347 U	-

AB-105	0	Dec-02
Ethylbenz	4400 J	-
Toluene	400 J	-
Xylenes	4800 J	-
2-Methylnap	32400 J	-

WB-SS1-0-0-5	Sep-03	3-4	Sep-03
Ethylbenz	0.8 J	0.7 J	-
Toluene	0.7 J	2.7 J	-
Xylenes	0.6 J	1.4 J	-
2-Methylnap	362 U	76 J	-

WB-SS2-0-0-5	Sep-03	3-4	Sep-03
Ethylbenz	2.9 U	3.7	-
Toluene	1.8 J	7.8	-
Xylenes	2.9 U	32.7	-
2-Methylnap	385 U	382 U	-

AB-SS1-0-0-5	Sep-03	4-5	Sep-03
Ethylbenz	2.7 U	3 U	-
Toluene	2.7 U	3 U	-
Xylenes	2.7 U	3 U	-
2-Methylnap	370 U	407 U	-

AB-SS2-0-0-5	Sep-03	4-5	Sep-03
Ethylbenz	2.7 U	2.9 U	-
Toluene	2.7 U	2.9 U	-
Xylenes	2.7 U	2.9 U	-
2-Methylnap	358 U	391 U	-

SOURCES:
1. SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT, SOUTHWEST PROPERTIES, VOLUME 1 OF XXII, WELLS G&H SUPERFUND SITE, WOBURN, MASSACHUSETTS, AUGUST 2003
2. CLEAN HARBORS 1998, CORRECTIVE ACTION INVESTIGATION REPORT (PART II), VOLUME 1 OF 1, MURPHY'S WASTE OIL SERVICES, INC., WOBURN, MASSACHUSETTS, 1998.

ABERJONA SITE
WHITNEY SITE
MURPHY WETLAND
MURPHY SITE

LEGEND
STREAM OR WETLAND
PROPERTY LINE

APPROXIMATE GRAPHIC SCALE
0' 75' 150'

FIGURE S-1
ETHYLBENZENE, TOLUENE, XYLENES & 2-METHYLNAPHTHALENE IN SOIL
SOUTHWEST PROPERTIES WELLS G&H SUPERFUND SITE OPERABLE UNIT 2 WOBURN, MASSACHUSETTS
M&E Metcalf & Eddy
TRC PROJ. NO.: 02138-0380-01487
EPA CONTRACT NO.: 68-WB-0043
RAC SUBCONTRACT NO.: 107081

TRC
South Site South
115 John Street
Woburn, MA 01801
878-870-8800

[illegible]

AP-SS2	0-5	Sep-93	4-5	Sep-93
TCE	27 U		29 U	
PCE	27 U		29 U	
CHL2 DCP				
VC	27 U		29 U	

	WB 10	02	Nov 02	24	Nov 02
ICE		21 U		1.6 J	
PCE		21 U		2.2 U	
Gr ⁺ 2-OCF		21 U		2.2 U	
VC		21 U		2.2 U	

WB-SS3	005	Sep-93	3-4	Sep-93
TCE	28 U		27 U	
PCE	28 U		27 U	
CM-1,2-DCE				
VI	28 U		27 U	

AB-555	0-05	Sep-93	3-4	Sep-93
ICE	133 U		29 U	
PCE	133 U		29 U	
dis-12-00E	-			
VC	133 U		29 U	

AB-SSB	0-05	Sep-83	3-4	Sep-83
TCE	26 U		38 W	
PCF	26 U		38 W	
Ch-2-00E				

AB-15	D-2	Nov-02
TCE	1.7 U	
PCE	1.7 U	
Cis-1,2-DCE	1.7 U	

VC	170		
43-559	005	Sep 93	34
ICE	26 U		42 U
PCE	26 U		42 U
SP-1-DOE			

VC	26U	42U
AB-SS?	0-05	Sep-83
TCE	26U	28U
PCE	26U	28U

VC	26 U	29 U
----	------	------

AB SS1	005	Sec 33	45	Sec 33
TCE	27U		3U	
PCA	27U		3U	
CR-1 2-DCE				
VC	27U		3U	

#B SS4	0-0.5	Sep-03	4-5	Sep-03
TCE	3U		28U	
PCE	3U		28U	
CH-1 PCE				
VC	3U		28U	

COLOR SHOWS AREA OF SAMPLE	SAMPLE LOCATION	DEPTH RANGE (FEET)	DATE
COMPOUND NAME	AS-10	0-2	Nov-02
TRICHLOROETHENE	TC	1.8 U	
TETRACHLOROETHENE	PC	1.8 U	
CIS-1,2-DICHLOROETHENE	C-1,2-DCE	1.8 U	
VINYL CHLORIDE	VC	1.8 U	
ABBREVIATION			

CONCENTRATION mg/kg
BOLD TYPE = DETECTED
ITALIC = CONCENTRATION NOT DETECTED AT GIVEN DEPTH (1 M)

SOURCES:

1. SUPPLEMENTAL REMEDIAL INVESTIGATION REPORT, SOUTHWEST PROPERTIES, VOLUME I OF XXIII, WELLS G&H SUPERFUND SITE, WOBURN, MASSACHUSETTS, AUGUST 2003
2. CLEAN HARBORS 1998, CORRECTIVE ACTION INVESTIGATION REPORT (PART II), VOLUME 1 OF 1, MURPHY'S WASTE OIL SERVICES, INC. WOBURN, MASSACHUSETTS 1998

ABERJONA SITE
WHITNEY SITE
MURPHY WETLAND
MURPHY SITE

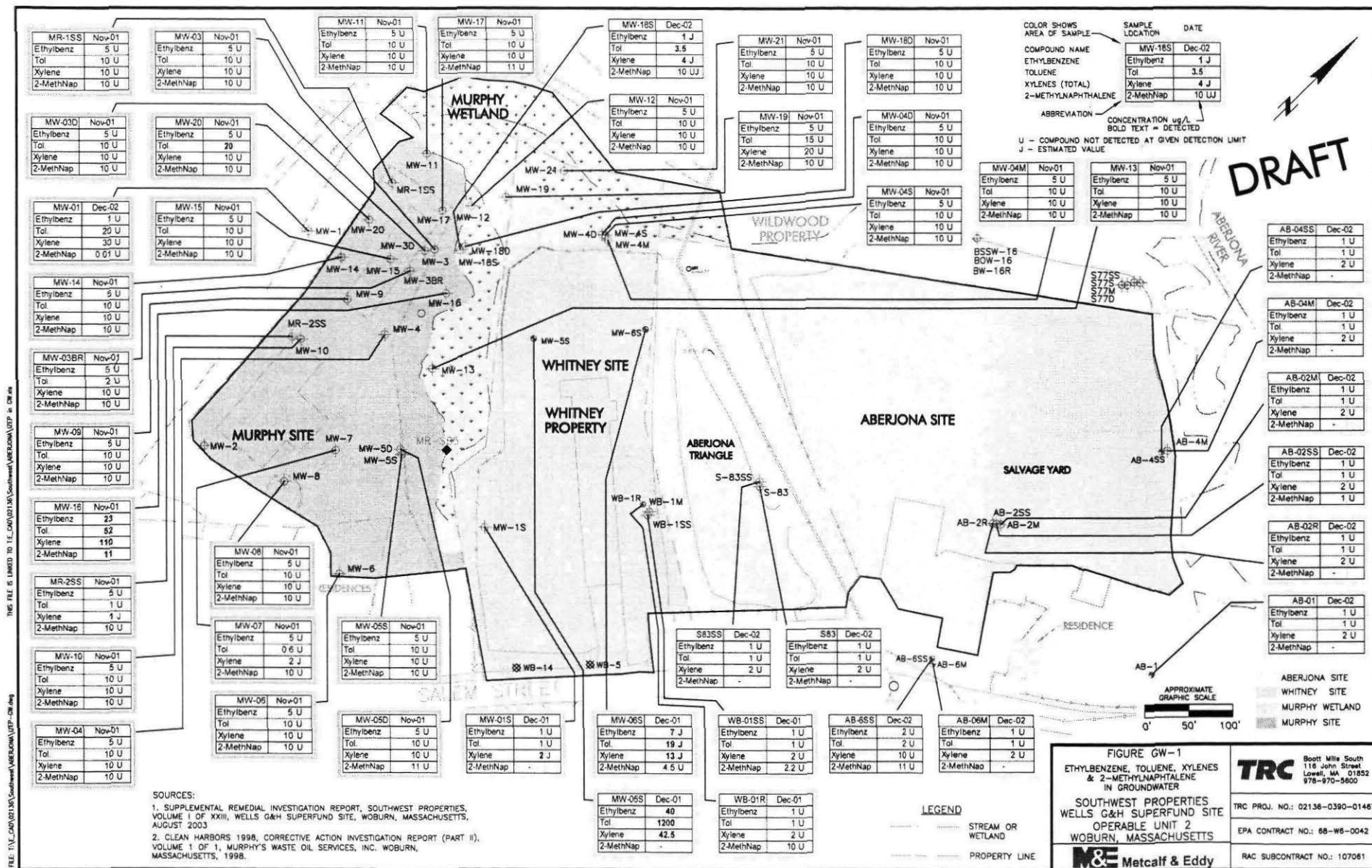
LEGEND

STREAM OR WETLAND

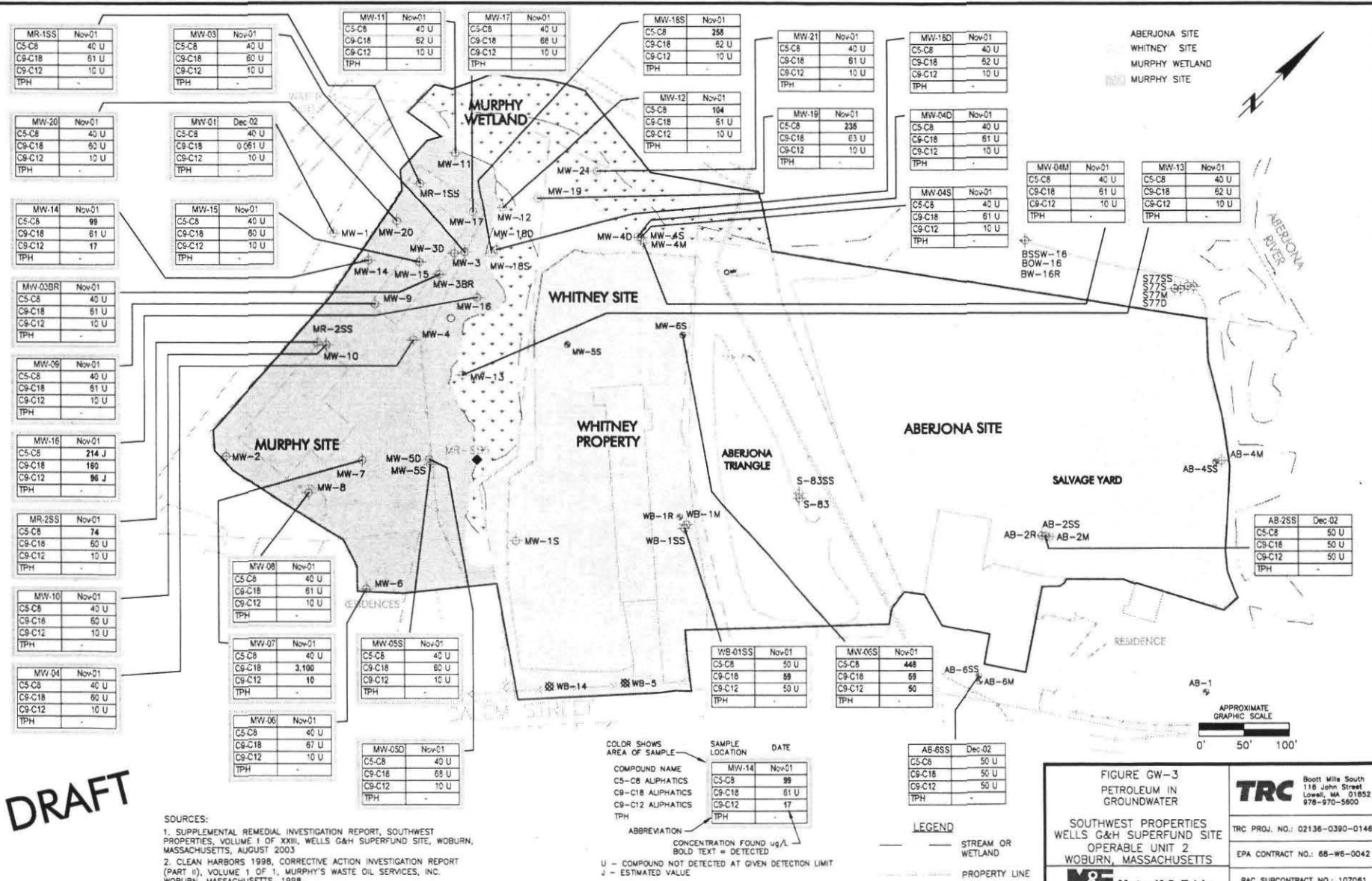
PROPERTY

APPROXIMATE
GRAPHIC SCALE

<p>FIGURE S-2 CHLORINATED VOCs IN SOIL</p> <p>SOUTHWEST PROPERTIES WELLS G&H SUPERFUND SITE OPERABLE UNIT 2 WOBURN, MASSACHUSETTS</p>	<p>TRC</p> <p>Beatt Mills South 118 John Street Lowell, MA 01852 978-970-5800</p>
<p>NO</p>	<p>TRC PROJ. NO.: 02138-0390-0148</p> <p>EPA CONTRACT NO.: 68-W6-0042</p> <p>SAC SUBCONTRACT NO.: 107061</p>



DRAFT



Supplemental Remedial Investigation Report Southwest Properties

Wells G & H Superfund Site Woburn, Massachusetts

Prepared by:

**The RETEC Group, Inc.
300 Baker Ave, Suite 302
Concord, MA 01742**

RETEC Project Number: 15094

Prepared for:

Beatrice Company

Prepared by:



Peter S Cox, Senior Hydrogeologist

Reviewed by:



James R. Greacen, Operations Manager

August 2003

Executive Summary

This supplemental remedial investigation report presents the results of an investigation requested by EPA to update and supplement data collected previously at the Southwest Properties. The Southwest Properties are a portion of the Central Area (Operable Unit II, or OU-II) of the Wells G&H Superfund Site. The Southwest Properties are located in the southwest corner of the Wells G&H site near the intersection of Salem Street and the B&M Railroad, which form the southern and western boundaries of the Wells G&H Site. The Southwest Properties are comprised of three separate parcels of land known as Aberjona Auto Parts (Aberjona), Whitney Barrel (Whitney), and Murphy Waste Oil (Murphy). Past commercial activities at the Southwest Properties include the repair and storage of junked automobiles, cleaning and recycling of used drums and tanks, and storage and transfer of waste oils.

Numerous investigations have been performed at the Southwest Properties that document the nature and extent of environmental impacts. In 1980, EPA directed investigations of the Aberjona Auto Parts (Ecology and Environment, 1980a) and Whitney Barrel (Ecology and Environment, 1980b). In 1984, Whitney Barrel performed an additional investigation of its property to comply with the requirements of the Massachusetts Department of Environmental Protection (DEP). In 1986, the Southwest Properties were investigated by EPA as part of the Wells G&H Remedial Investigation (NUS, 1986), and again in 1988 as part of the Final Supplemental Remedial Investigation (Ebasco, 1988). In 1993, Beatrice performed a Remedial Investigation of the Southwest Properties (RETEC, 1994) to fulfill its commitment under the Consent Decree for the Wells G&H Site. Throughout the 1990s, Clean Harbors performed investigations of the Murphy Waste Oil site as required by Massachusetts DEP under its RCRA program (Clean Harbors, 1994, 1996, 1998). In 2000, EPA requested that Beatrice perform an additional investigation of the Southwest Properties to update and supplement existing information and to provide data to be used by EPA to perform a risk assessment for the Southwest Properties. This supplemental remedial investigation report presents the results of this investigation and summarizes data collected during earlier investigations. These data include the results of over 175 soil samples and over 60 groundwater samples that characterize environmental and sediment conditions on the Southwest Properties.

The Southwest Properties are located in Aberjona River Valley in the southwestern corner of the Wells G&H Superfund Site (Figure E-1). Similar to many agriculturally and commercially developed valleys in New England, the Aberjona River Valley (including the Southwest Properties) was attractive to development because it has a relatively low topographic relief, is easily constructed upon, and is underlain by a valley-fill aquifer that is capable of supplying large quantities of water. As such, the Aberjona River Valley has a long history of industrial uses. The valley also has a lengthy agricultural history. There is also a long-standing history of waste disposal within the

Aberjona River Valley. The Aberjona, Whitney, and Murphy sites that comprise the Southwest Properties also have a long-standing history of property usage that has the potential to impact soils, wetland sediments, and groundwater in these areas.

The distribution of chemicals in the subsurface is consistent with the history of commercial use at the Southwest Properties. Areas of former commercial activity such as the waste oil storage and transfer at Murphy, the barrel refinishing at Whitney, or the auto junk yard and repair facility at Aberjona, have been identified as potential source areas. Areas where no past commercial use has occurred have been used to determine background conditions.

The primary identified site contaminants in soils, sediments, and groundwater across the Southwest Properties include the following constituents, broken down by contaminant type. These include:

VOCs, including benzene, petroleum hydrocarbons, methyl tertiary butyl ether, tetrachloroethene, trichloroethene, and vinyl chloride;

Semivolatile organic compounds, including benzo(a)anthracene, and benzo(a)pyrene;

Pesticides, such as alpha-chlordane and gamma-chlordane;

PCB Aroclors, such as Aroclor 1264 and Aroclor 1260;

PCB congeners, such as 2,3',4,4'-PentaCB(118) and 3,3',4,4',5-PentaCB(126); and

Metals, including arsenic, cadmium, chromium, and lead.

Surface Soils and Wetland Sediments

The occurrence of chemicals in soil can be largely linked to on-site activities. The Murphy site contains the highest concentrations of benzene, polynuclear aromatic hydrocarbons including benzo(a)anthracene and benzo(a)pyrene, select PCBs, chromium, hexavalent chromium, and lead. The petroleum impacts were highest in the area of the former "oil pit" where spent oil filter media were reportedly disposed. Chlorinated VOCs and other petroleum impacts were noted in the area of the former waste oil ASTs in the northern portion of the property. Chromium in surface soils and wetland sediments at the Murphy site occurs primarily in the wetland area in the northern portion of the property. At the Whitney site, the highest concentrations of benzene, benzo(a)anthracene and benzo(a)pyrene, alpha- and gamma-chlordane, PCBs, arsenic, and cadmium were detected in surface soils. All of these samples

were collected from the rear lot area where former drum washing operations reportedly occurred. Lower concentrations of these chemicals were detected in surface soils at the Aberjona site.

Subsurface Soils

In shallow subsurface soils, a large percentage of the highest concentrations of chemicals were detected at the Whitney site in the area where the former drum washing operations occurred. Of the primary site constituents identified previously, only PCB congener Penta CB (126), arsenic, chromium, lead, and petroleum-related constituents, were detected in higher concentrations at the other properties. The highest Penta CB (126) concentration was detected in wetland soil sample MR-11D at Murphy and the highest arsenic and chromium concentrations were detected in one subsurface soil sample from Aberjona isolated adjacent to the Aberjona River. Both arsenic and chromium have been detected pervasively in sediments of the Aberjona River, including upstream areas. The petroleum compounds (benzene and PAHs) and lead were detected in the highest concentrations at the Murphy site. Some of these soils in the area of the B-series borings were likely excavated during excavation/remediation of the former "oil pit."

Groundwater

Groundwater impacts are consistent with those constituents detected in surface soils at many locations. The highest concentrations of some chlorinated VOCs, petroleum hydrocarbons, and the metals (arsenic, chromium, and lead) were detected in shallow wells at the Murphy site. The Whitney site contained the highest concentrations of benzene, MTBE, and VPH detected in shallow groundwater at the site. The Aberjona site contained the highest shallow overburden groundwater PCE concentrations at the site.

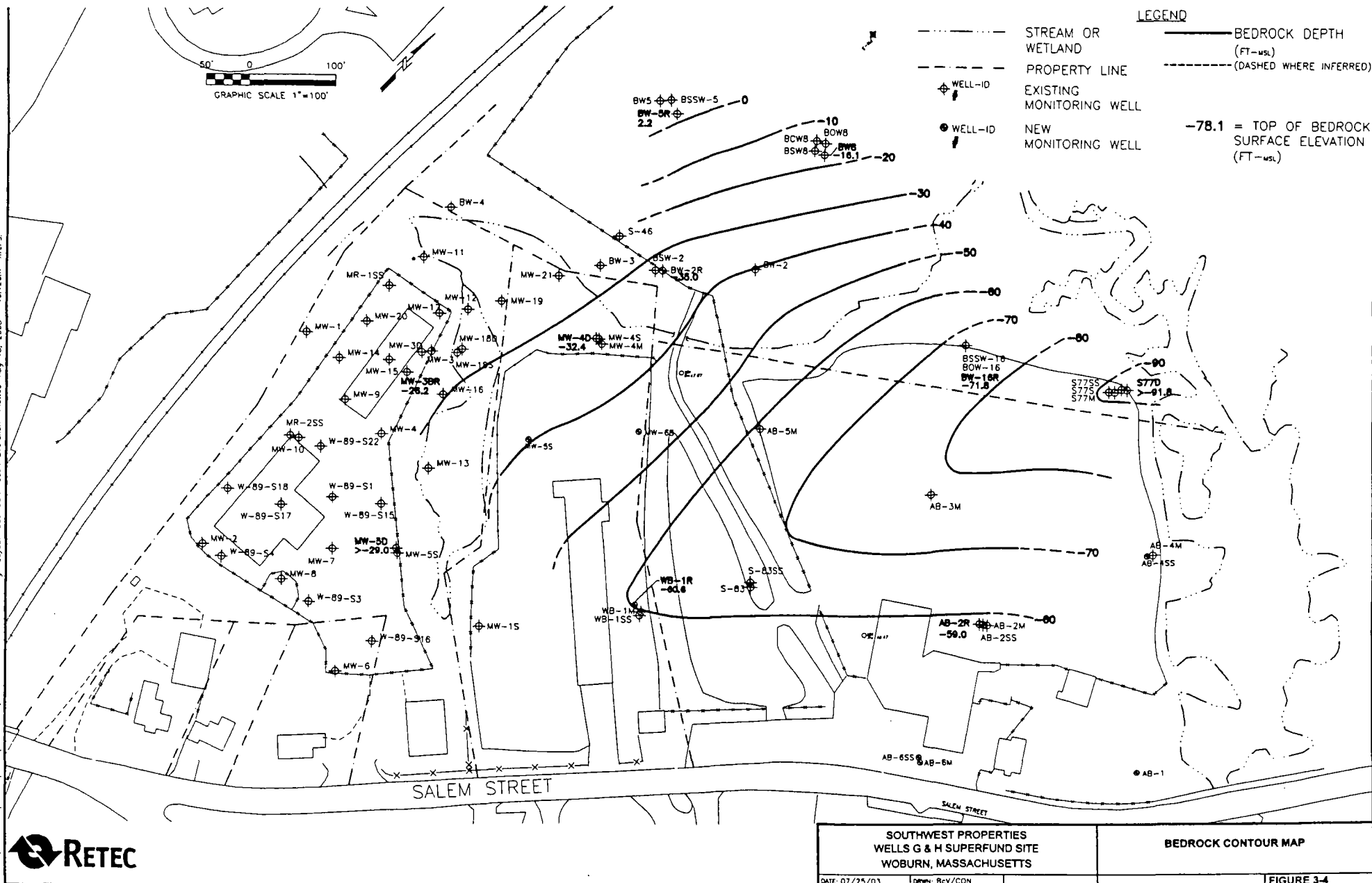
In the intermediate to deep overburden aquifer and the shallow bedrock aquifers, the primary contaminants that were detected were found at the Aberjona site (TCE, cis-1,2-DCE, VC, PCE, and benzene). The general lack of these constituents in site soils at the Aberjona site suggest these compounds have migrated in groundwater onto the site area due to the downgradient position of the Aberjona site with respect to both the other southwest properties and the Central Area aquifer. Many of the detections are at low concentrations (less than 50 $\mu\text{g/L}$).

Summary

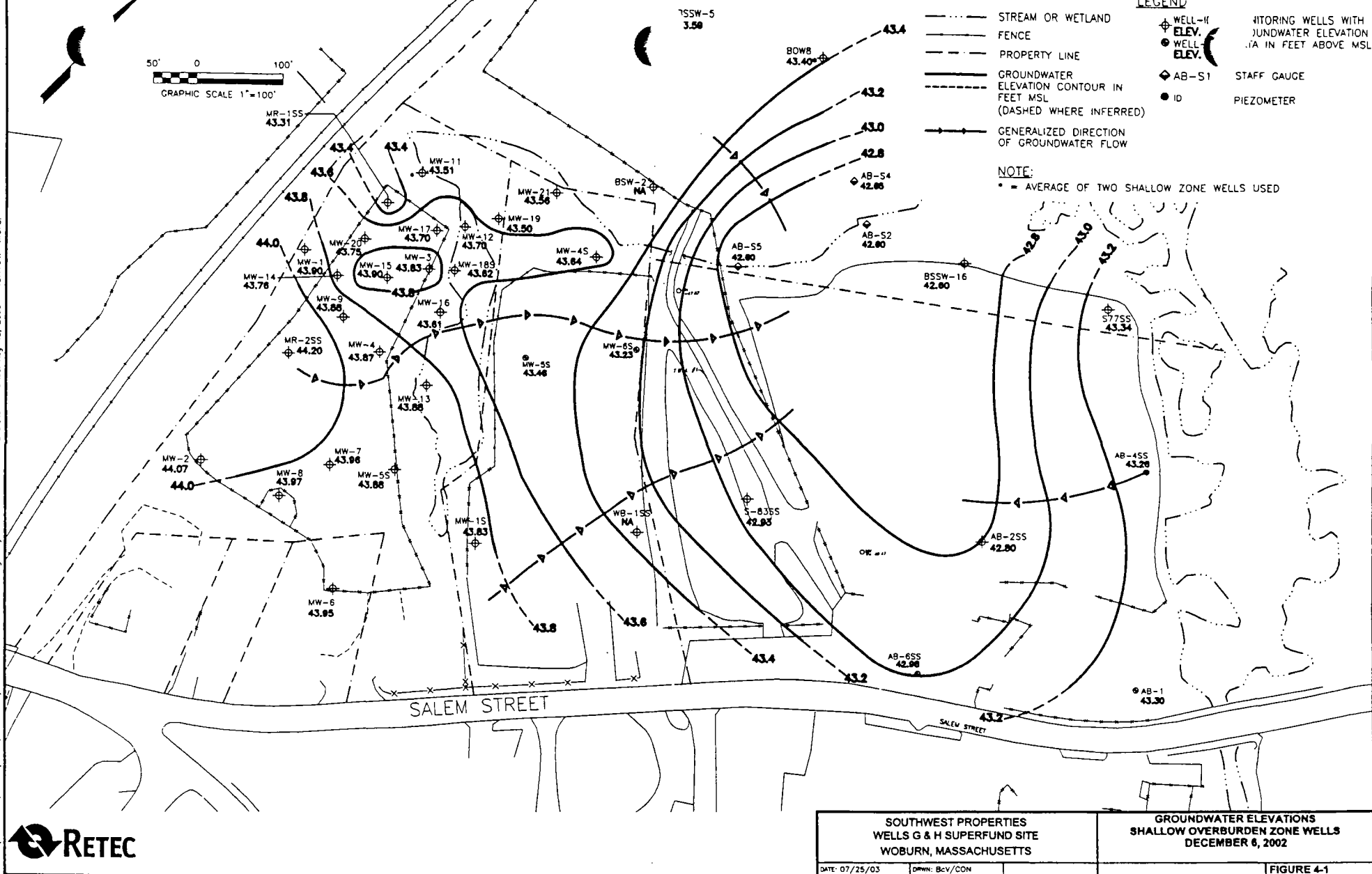
The large volume of data provides a thorough description of the nature and distribution of chemicals in the subsurface at the Southwest Properties. The soil and much of the groundwater analytical data are consistent with historical site operations. The results of the investigation of the Southwest Properties requested by EPA in 2000 supplements the previously collected data and

supports the results of earlier investigations. These data are sufficient to support preparation of a risk assessment for the Southwest Properties and evaluate potential responses to address risks to human health and the environment.

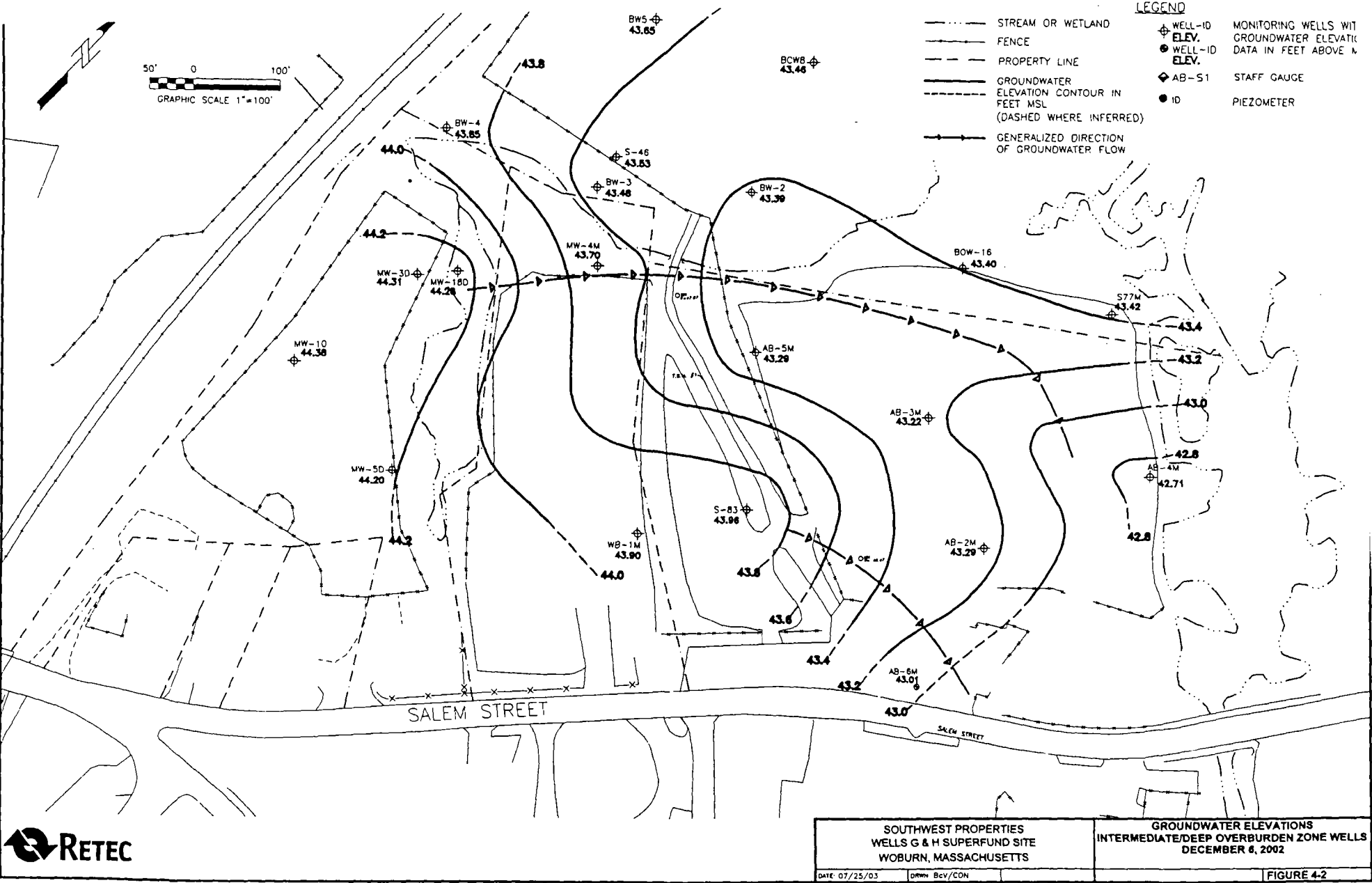
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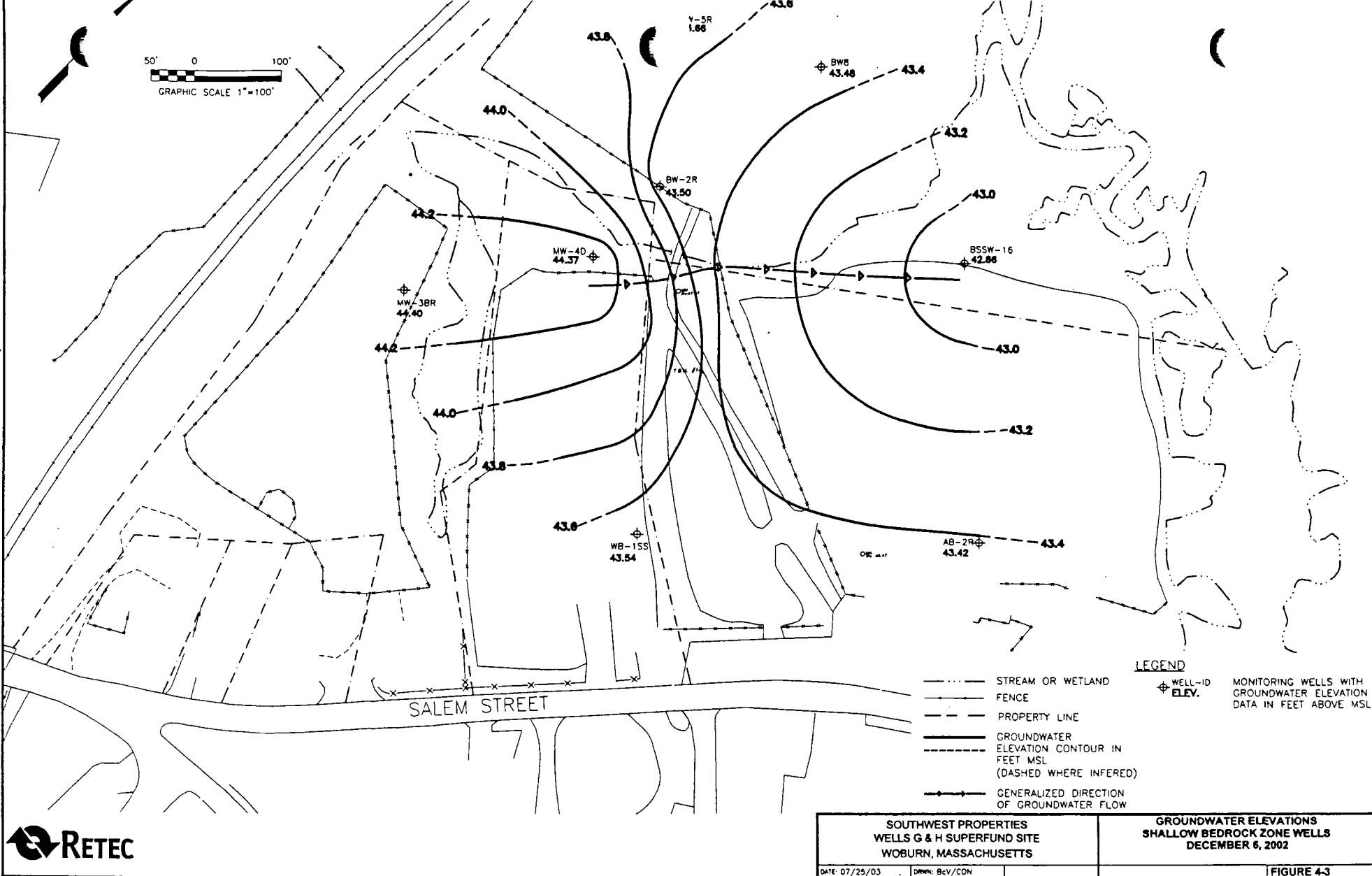
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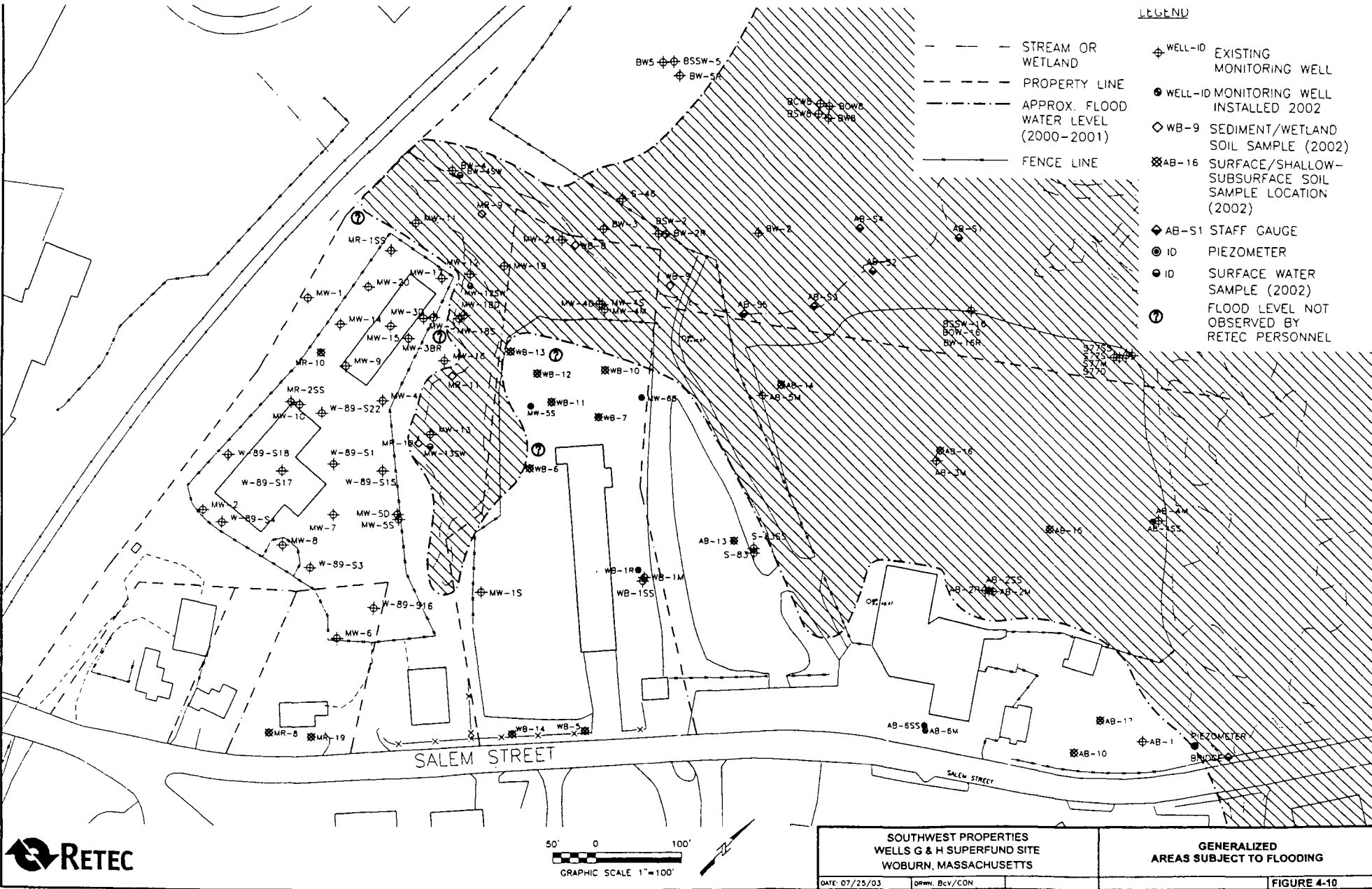
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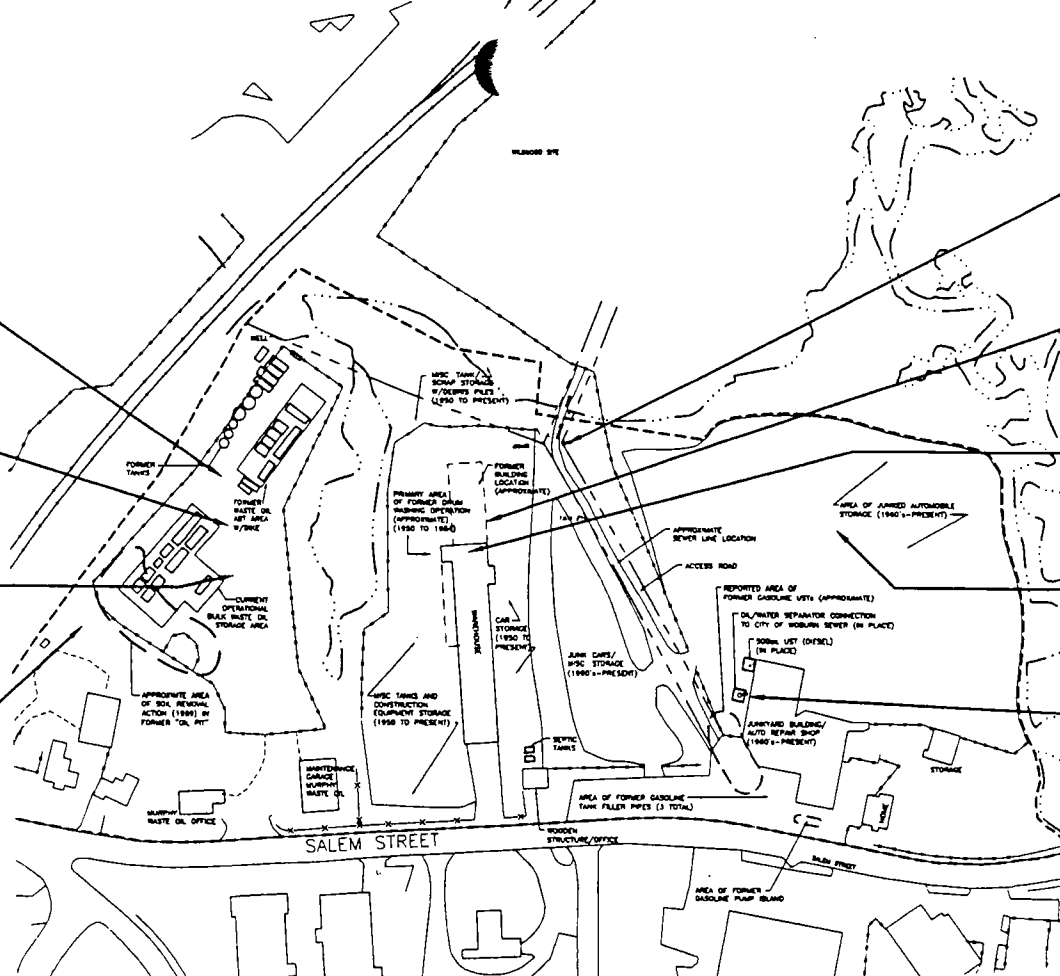
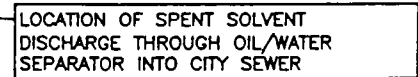







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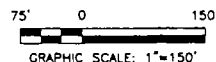


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 FENCE
 RAILROAD TRACK
 STREAM OR WETLAND
 APPROXIMATE BOUNDARY OF
 SOUTHWEST PROPERTIES AREA
 UTILITY EASEMENT



GRAPHIC SCALE: 1"=150'

DATE: 07/25/03	TIME: 16:05/COM
----------------	-----------------

FIGURE 5.1



DATA POSTED BY SAMPLES IS THE BENZO(a)PYRENE CONCENTRATION IN (µg/Kg)

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

FB = ANALYTE ALSO DETECTED IN FIELD BLANK

J = ESTIMATED CONCENTRATION

LEGEND		
-----	STREAM OR WETLAND	◆ ID
-----	PROPERTY LINE	◇ WB-9
-----	BURIED WATER AND SEWER UTILITIES	⊗ AB-16
-----	FENCE	○
-----	RAILROAD TRACK	
		SEDIMENT/WETLAND SOIL SAMPLE (1993)
		SEDIMENT/WETLAND SOIL SAMPLE (2002)
		SURFACE/SALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
		SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

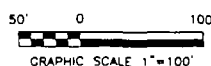
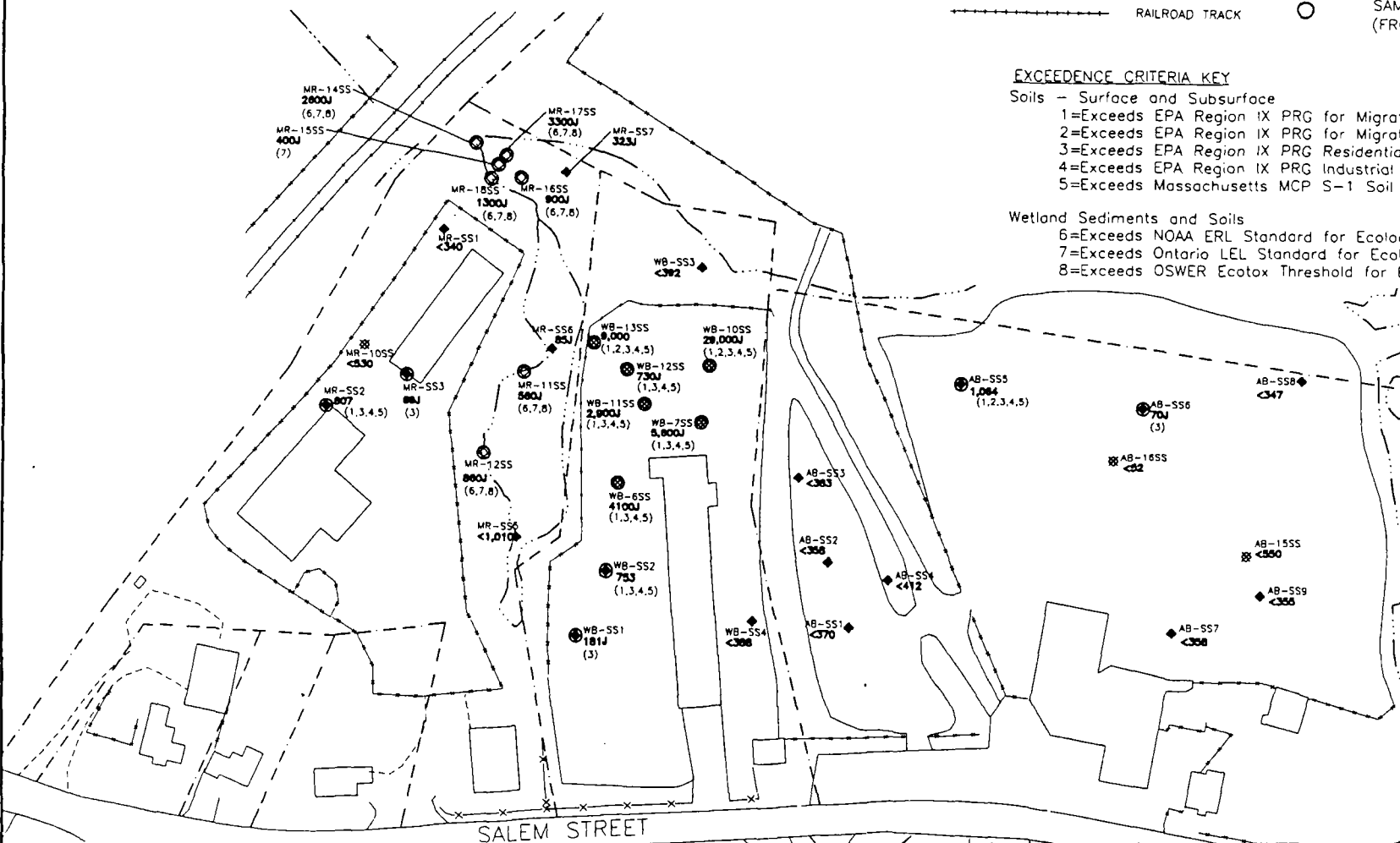
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=2C)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBBURN, MASSACHUSETTS

BENZO(a)PYRENE IN SURFACE SOILS
AND WETLAND SEDIMENTS (µg/Kg)

DATE 07/25/03

OPINION: BGV/CON

FIGURE 6-5

FIGURE 6-6

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THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)
FB = ANALYTE ALSO DETECTED IN FIELD BLANK
J = ESTIMATED CONCENTRATION

LEGEND
--- STREAM OR WETLAND
--- PROPERTY LINE
--- FENCE
--- RAILROAD TRACK
◆ ID
◇ WB-9
⊗ AB-16
○
SEDIMENT/WETLAND SOIL SAMPLE (1993)
SEDIMENT/WETLAND SOIL SAMPLE (2002)
SURFACE/SHALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

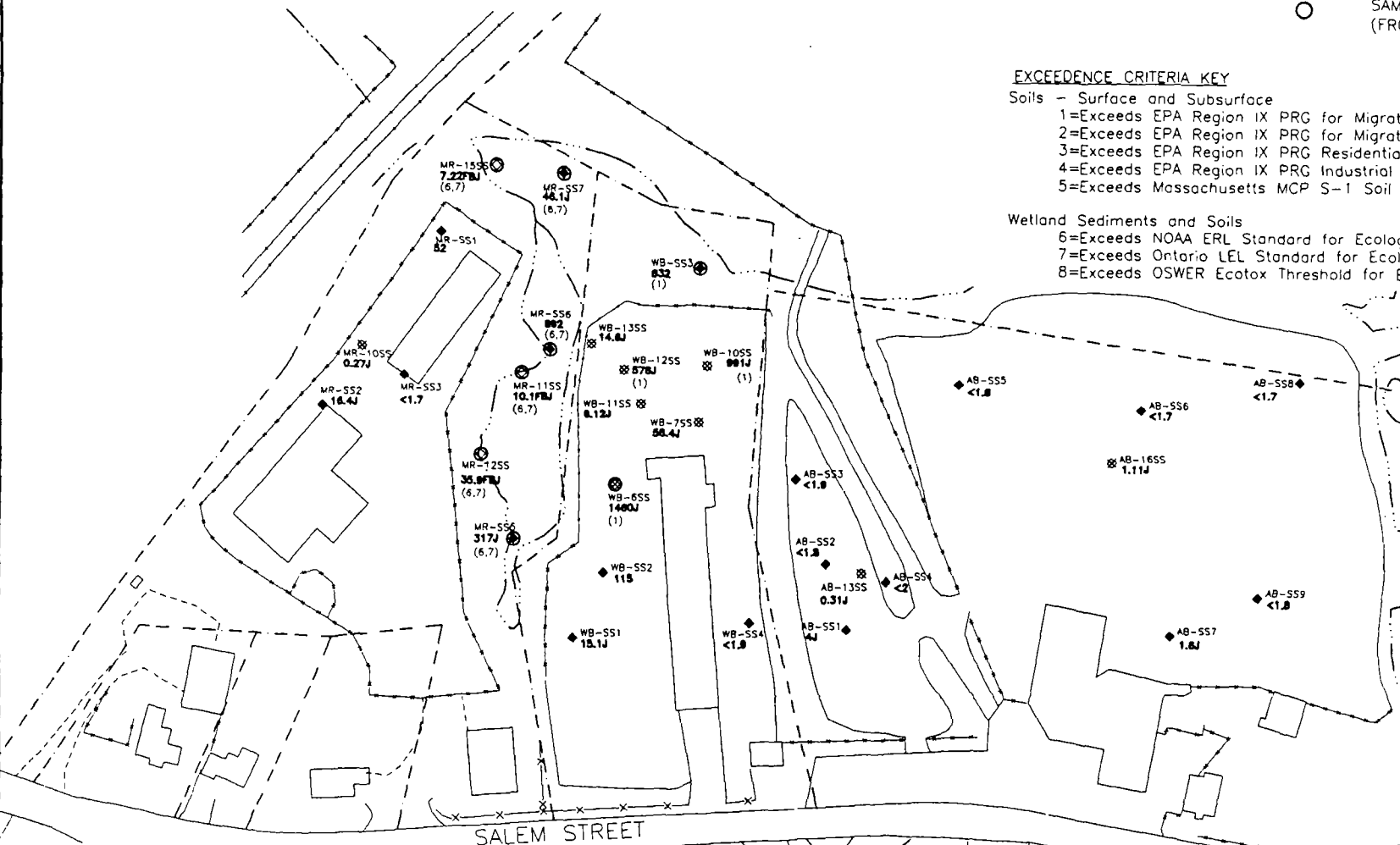
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



50' 0 100'
GRAPHIC SCALE 1"=100'

SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS

ALPHA-CHLORDANE IN SURFACE SOILS
AND WETLAND SEDIMENTS (ug/Kg)

DATE: 07/25/03 DPM: BcV/CON

FIGURE 6-7

THE NUMBER IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE BELOW)
 FB = ALSO DETECTED IN FIELD BLANK
 J = ESTIMATED CONCENTRATION

FB = ANK . ALSO DETECTED IN FIELD BLANK

J = ESTIMATED CONCENTRATION

-----	STREAM OR WETLAND	◆ ID	SEDIMENT/WETLAND SOIL SAMPLE (2002)
----	PROPERTY LINE	◇ WB-9	SEDIMENT/WETLAND SOIL SAMPLE (2002)
—●—●—●—●—●—●—	FENCE	⊗ AB-16	SURFACE/SHALLOW-SUBSURFACE SOIL SAMPLE LOCATION (2002)
+-----+	RAILROAD TRACK	○	SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

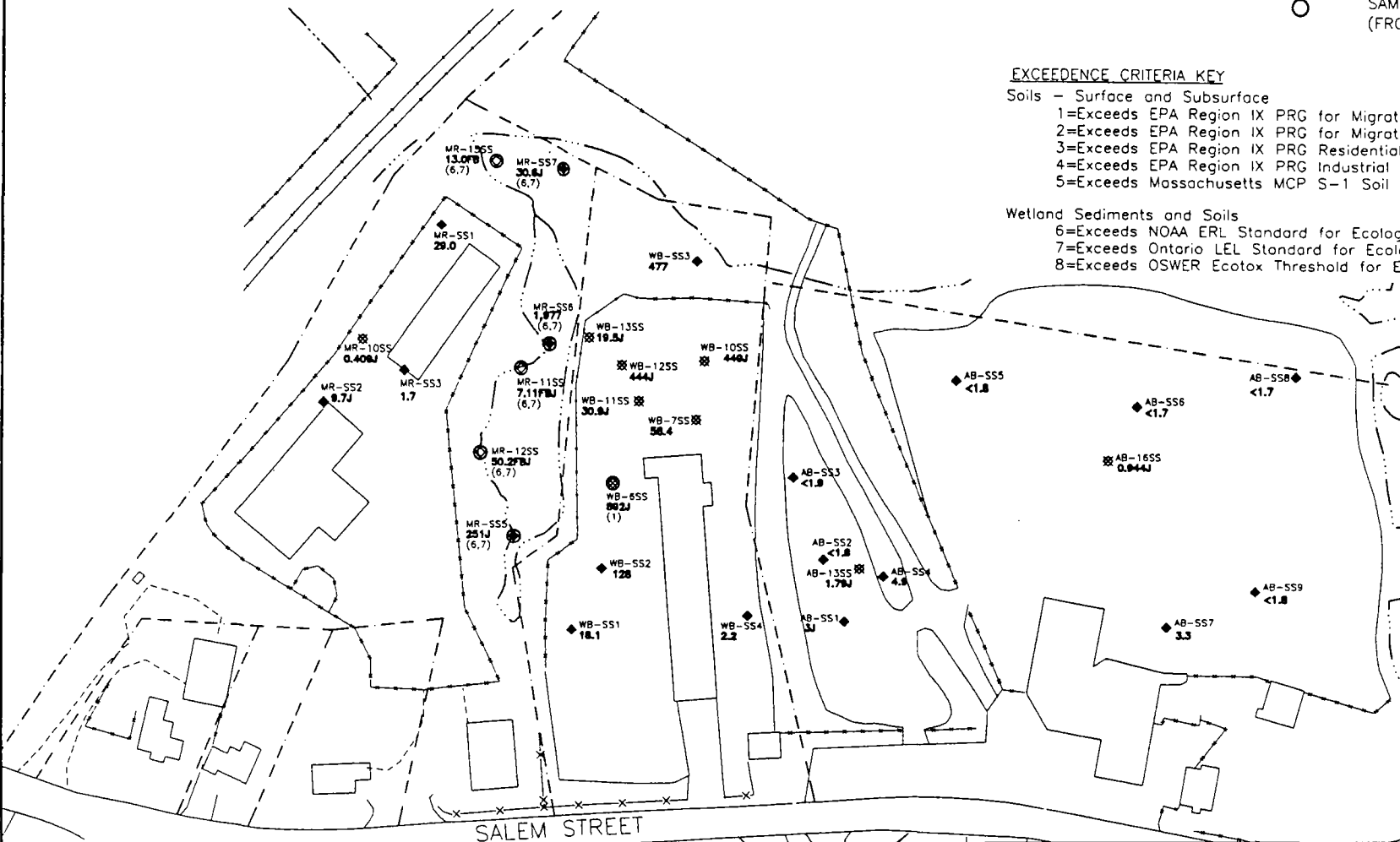
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

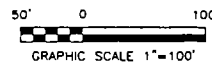
- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
3=Exceeds EPA Region IX PRG Residential Soil Standard
4=Exceeds EPA Region IX PRG Industrial Soil Standard
5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
7=Exceeds Ontario LEL Standard for Ecological Risk
8=Exceeds OSWER Ecotox Threshold for Ecological Risk



SALEM STREET



**SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS**









**GAMMA-CHLORDANE IN SURFACE SOILS
AND WETLAND SEDIMENTS ($\mu\text{g/Kg}$)**

FIGURE 8-8



THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

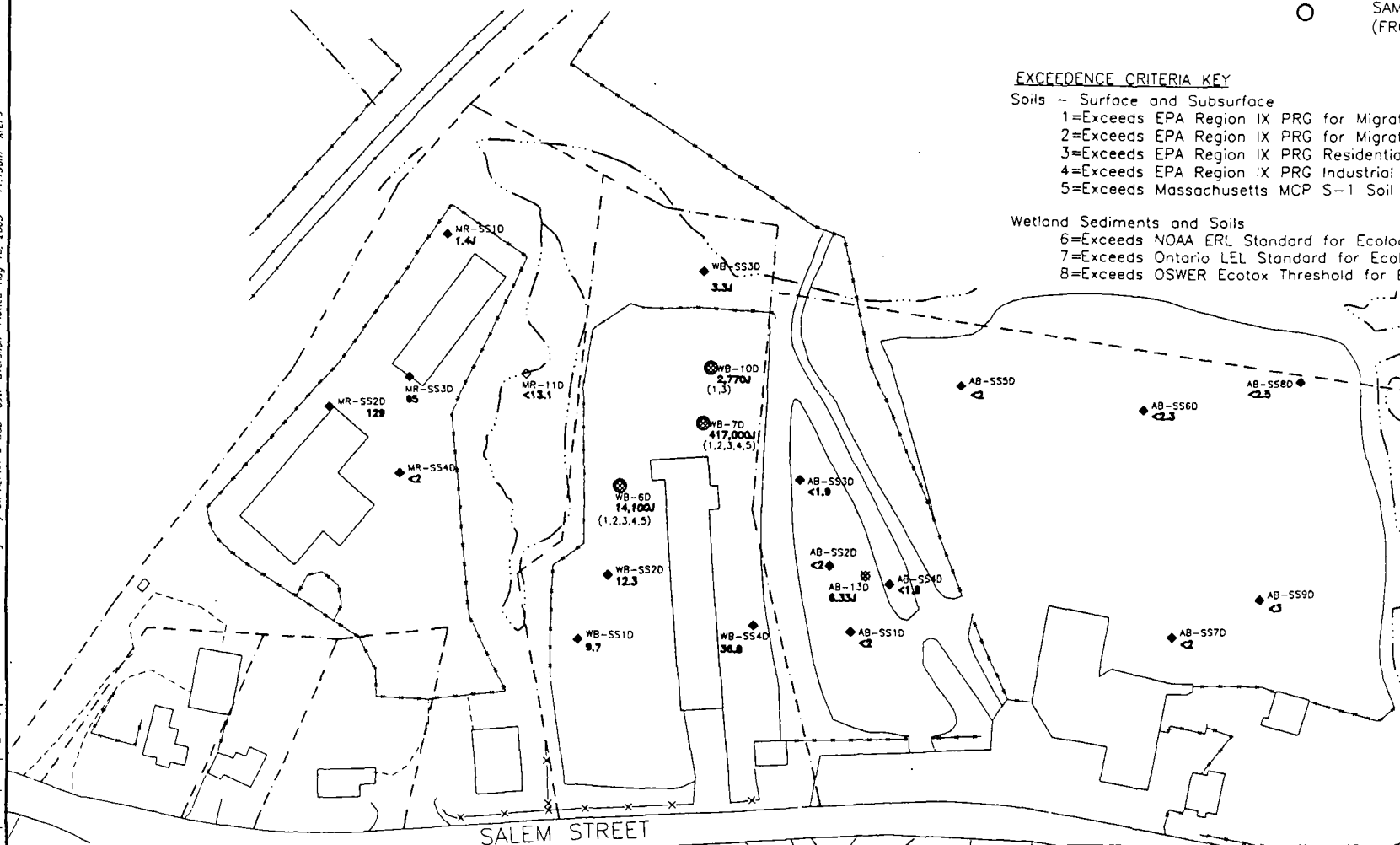
J = ESTIMATED CONCENTRATION

	STREAM OR WETLAND	 ID	SEDIMENT/WETLAND SOIL SAMPLE (1993)
	PROPERTY LINE	 WB-9	SEDIMENT/WETLAND SOIL SAMPLE (2002)
	FENCE	 AB-16	SURFACE/SALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
	RAILROAD TRACK		SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

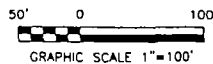
Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
3=Exceeds EPA Region IX PRG Residential Soil Standard
4=Exceeds EPA Region IX PRG Industrial Soil Standard
5=Exceeds Massachusetts MCP S-1 Soil Standard

6=Exceeds NOAA ERL Standard for Ecological Risk
7=Exceeds Ontario LEL Standard for Ecological Risk
8=Exceeds OSWER Ecotox Threshold for Ecological Risk



SALEM STREET



**SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS**

ALPHA-CHLORDANE IN SUBSURFACE SOILS
AND WETLAND SOILS (ug/Kg)





DATE: 07/25/03

ORWN: BcV/CON

FIGURE 6-9



J = ESTIMATED CONCENTRATION

 STREAM OR WETLAND
 PROPERTY LINE
 FENCE
 RAILROAD TRACK

◆ ID SOIL SAMPLE (93)
 ◇ WB-9 SEDIMENT/ (AND
 SOIL SAMPLE (2002)
 ✕ AB-16 SURFACE/SHALLOW- SUBSURFACE
 SOIL SAMPLE LOCATION (2002)
 ○ SAMPLE EXCEEDS CRITERIA
 (FROM KEY BELOW)

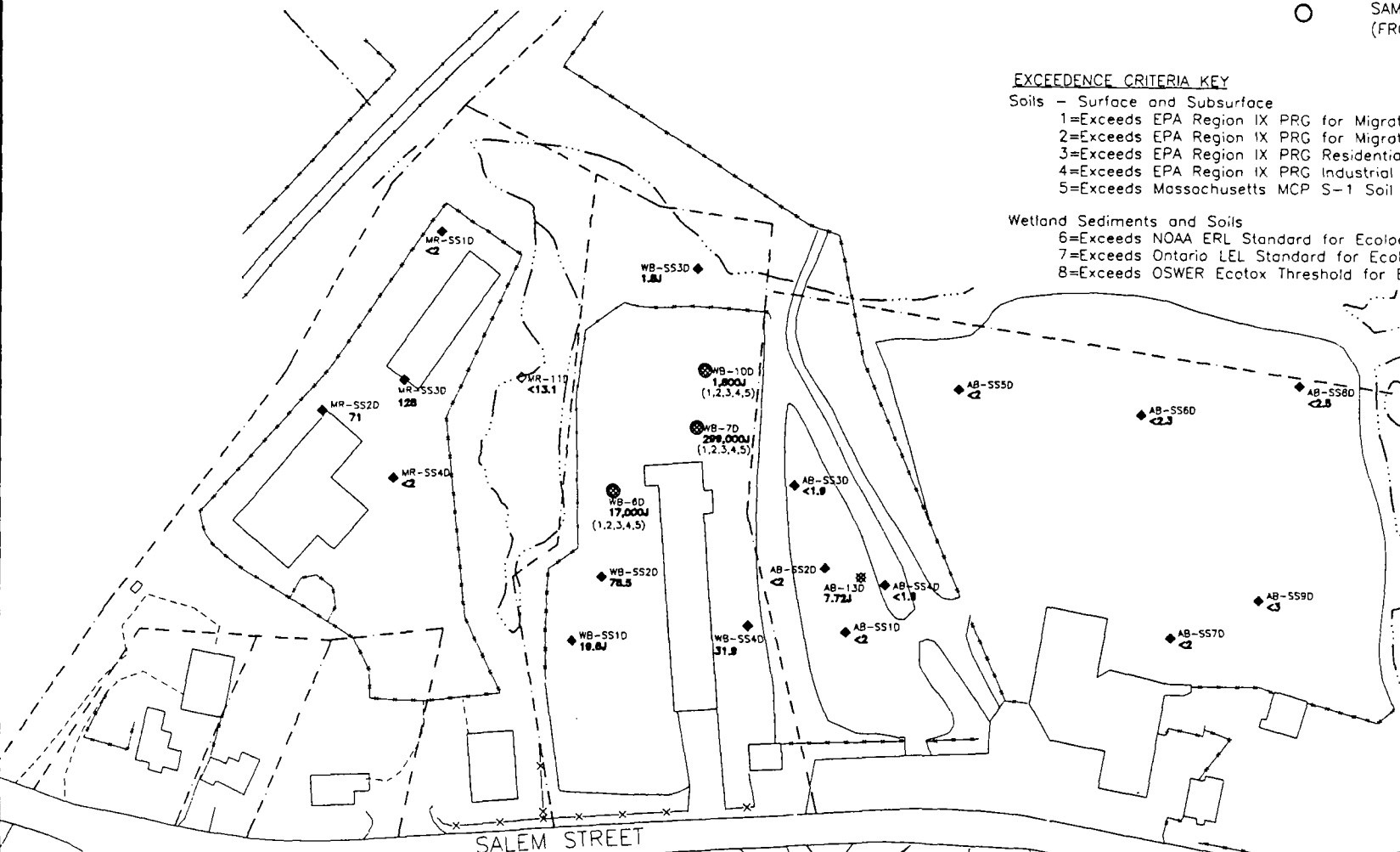
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
3=Exceeds EPA Region IX PRG Residential Soil Standard
4=Exceeds EPA Region IX PRG Industrial Soil Standard
5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
7=Exceeds Ontario LEL Standard for Ecological Risk
8=Exceeds OSWER Ecotox Threshold for Ecological Risk



50' 0 100
GRAPHIC SCALE 1"=100'

**SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS**

**GAMMA-CHLORDANE IN SUBSURFACE SOILS
AND WETLAND SOILS (ug/Kg)**

DATE 07/25/03

ORWN: BcV/CON

FIGURE 6-10

DATA POSTED BY SAMPLES IS THE AROCLOR-1254 CONCENTRATION IN ($\mu\text{g/Kg}$)

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

FB = ANALYTE ALSO DETECTED IN FIELD BLANK

J = ESTIMATED CONCENTRATION

— — — — —	STREAM OR WETLAND	◆ 10	SEDIMENT/WETLAND SOIL SAMPLE (1993)
- - - - -	PROPERTY LINE	◇ WB-9	SEDIMENT/WETLAND SOIL SAMPLE (2002)
		⊗ AB-16	SURFACE/SHALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
		○	SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

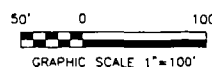
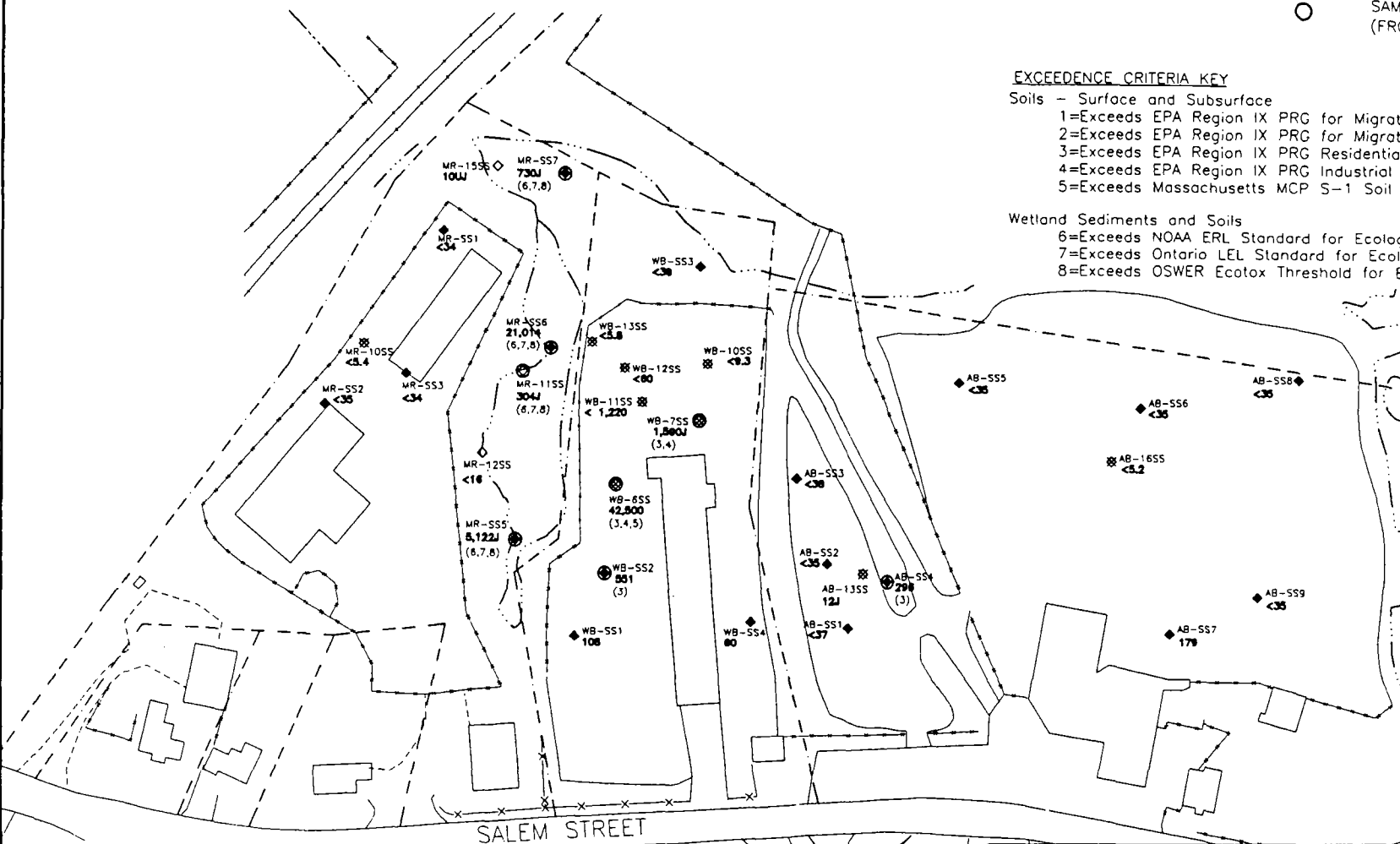
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS

AROCLOR-1254 IN SURFACE SOILS
AND WETLAND SEDIMENTS ($\mu\text{g/Kg}$)

DATE 07/31/03 DRAWN BCV/CON

FIGURE 6-11

File: F:\PROJECTS\15094\15094-CON-SS-20.dwg Layout: AROCLOR-1260-SSS User: Bherhan Plotted: Aug 11, 2003 - 11:36am Xref's:

THE NUMBER IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

FB = ALSO DETECTED IN FIELD BLANK

J = ESTIMATED CONCENTRATION

- — — STREAM OR WETLAND
- — — PROPERTY LINE
- ◆ ID
- ◇ WB-9
- ⊗ AB-16
-
- SEDIMENT/WETLAND SOIL SAMPLE (193)
- SEDIMENT/WETLAND SOIL SAMPLE (2002)
- SURFACE/SHALLOW-SUBSURFACE SOIL SAMPLE LOCATION (2002)
- SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

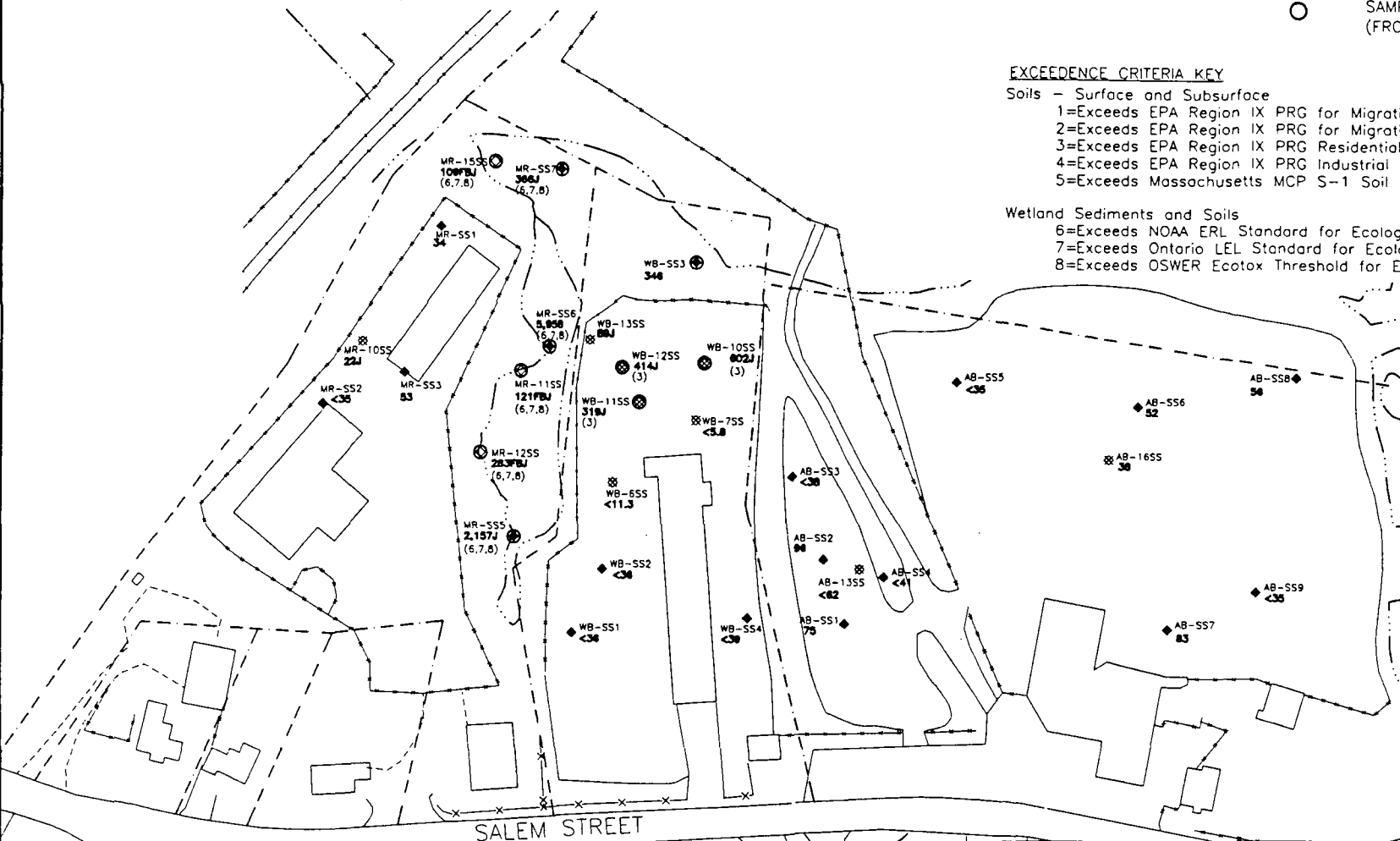
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



50' 0 100'
GRAPHIC SCALE 1"=100'

SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS

AROCLO-1260 IN SURFACE SOILS
AND WETLAND SEDIMENTS (ug/Kg)

DATE: 07/31/03 DRAWN: BGV/CON

FIGURE 6-12

EXCEEDS THE AROCLOR-1254 CONCENTRATION IN (ug/Kg)

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

FB = ANALYTE ALSO DETECTED IN FIELD BLANK

J = ESTIMATED CONCENTRATION

LEGEND

— — — STREAM OR WETLAND

— — — PROPERTY LINE

◇ WB-9 SEDIMENT/WETLAND SOIL SAMPLE (2002)

⊗ AB-16 SURFACE/SALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)

○ SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

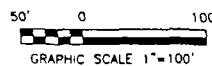
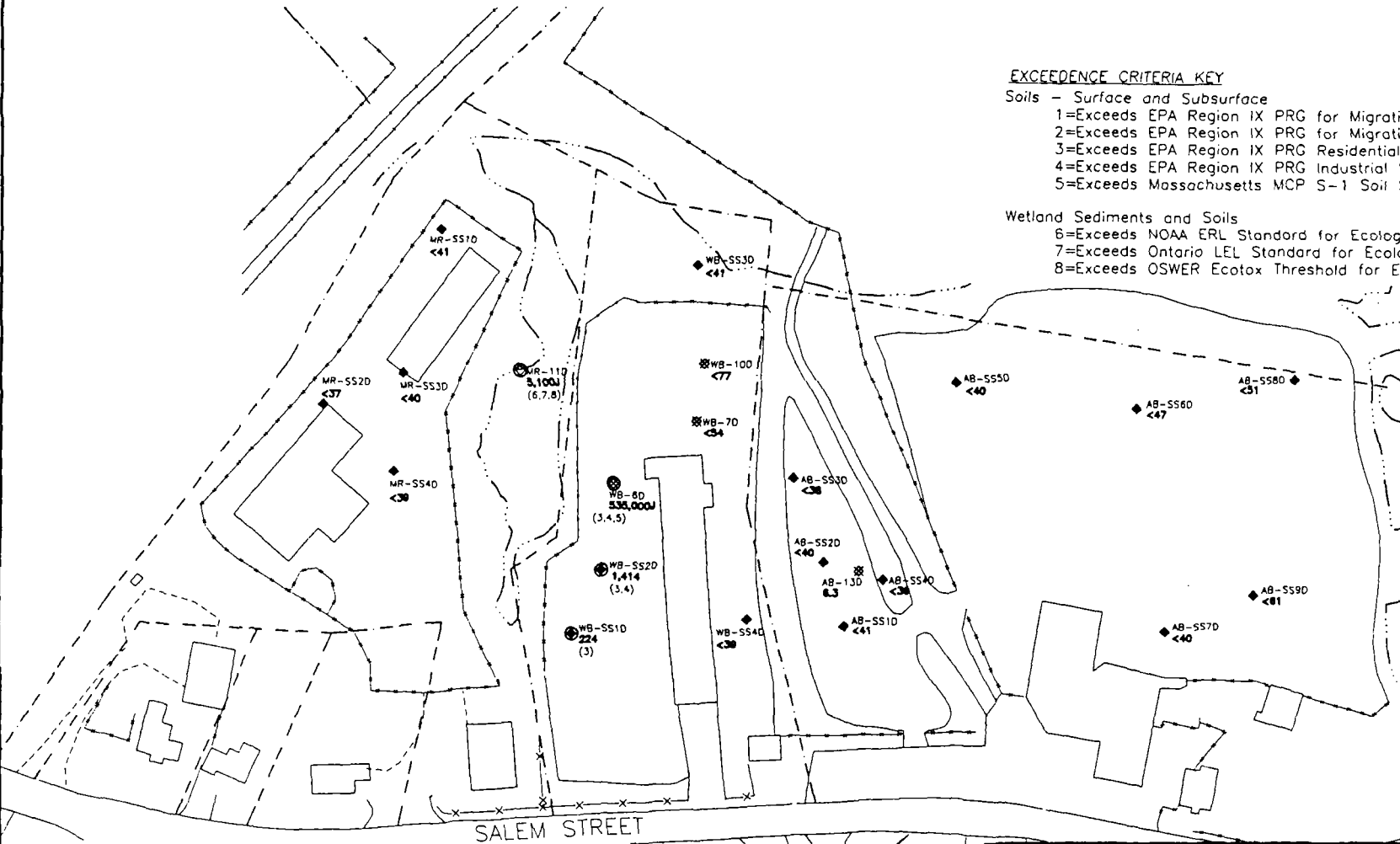
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



<p>SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBBURN, MASSACHUSETTS</p>	<p>AROCLOR-1254 IN SUBSURFACE SOILS AND WETLAND SOILS (ug/Kg)</p>
<p>DATE: 07/31/03</p>	<p>FIGURE 6-13</p>

File: F:\PROJECTS\15094\15094-COM-SS-211.dwg Layer: AROCLOR-1254-SSD User: Bletcher Plotted Aug 11, 2003 - 11:45am Xref's

THE NUM IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SE BELOW)
 FB = ALSO DETECTED IN FIELD BLANK
 J = ESTIMATED CONCENTRATION

— STREAM OR WETLAND
 --- PROPERTY LINE
 ◇ WB-9 SEDIMENT/V D
 SOIL SAMP J2)
 SURFACE/S JW- SUBSURFACE
 SOIL SAMPLE LOCATION (2002)
 ○ SAMPLE EXCEEDS CRITERIA
 (FROM KEY BELOW)

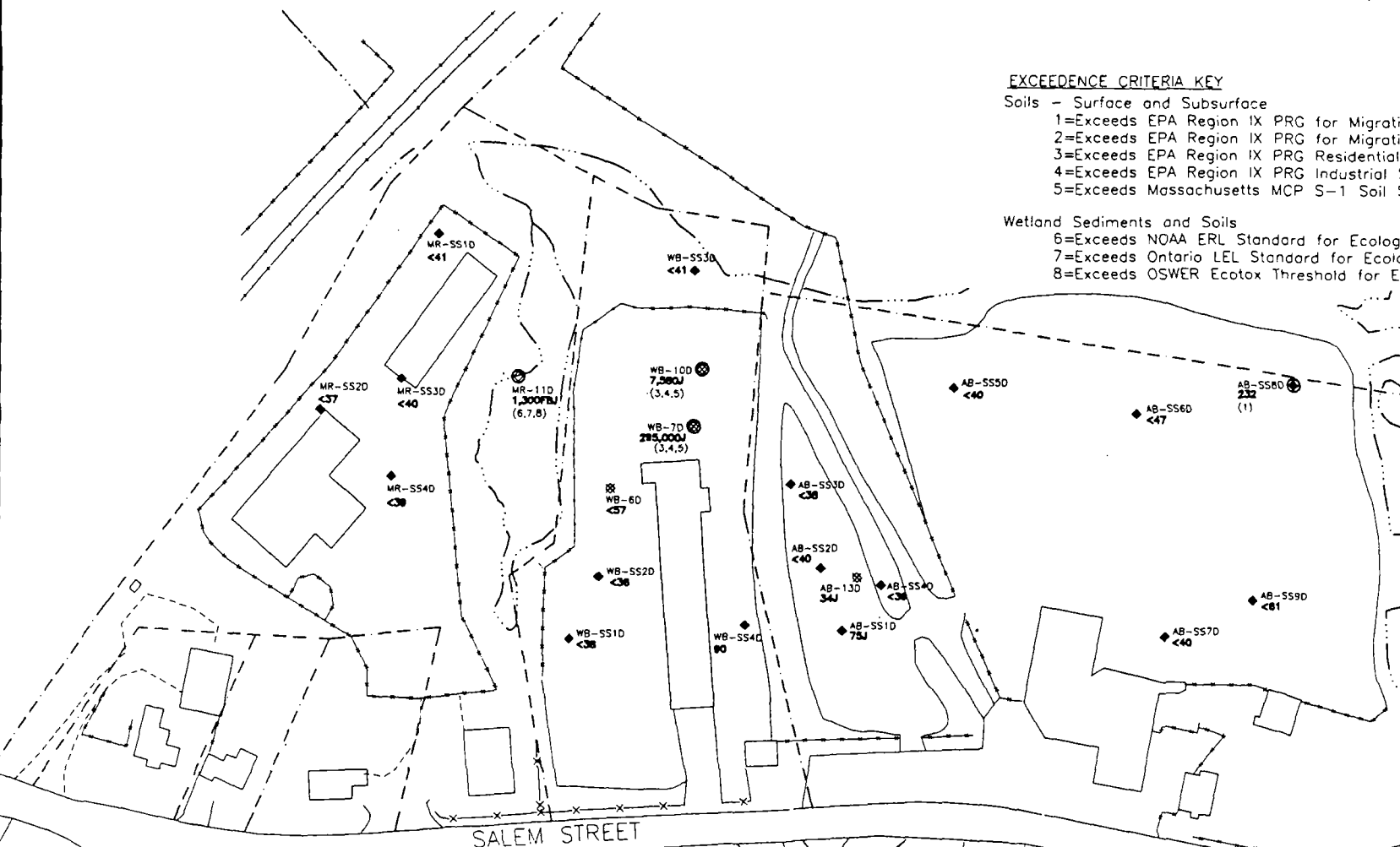
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



50' 0 100'
 GRAPHIC SCALE 1"=100'

SOUTHWEST PROPERTIES
 WELLS G & H SUPERFUND SITE
 WOBURN, MASSACHUSETTS

AROCOR-1260 IN SUBSURFACE SOILS
 AND WETLAND SOILS (ug/Kg)

DATE: 07/31/03 DRAWN: Bcy/CON

FIGURE 6-14

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

FB = ANALYTE ALSO DETECTED IN FIELD BLANK

J = ESTIMATED CONCENTRATION

— — — — —	STREAM OR WETLAND	◆ 10	SEDIMENT/WETLAND SOIL SAMPLE (1993)
— — — — —	PROPERTY LINE	◇ WB-9	SEDIMENT/WETLAND SOIL SAMPLE (2002)
		⊗ AB-16	SURFACE/SHALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
		○	SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

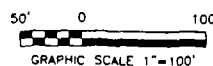
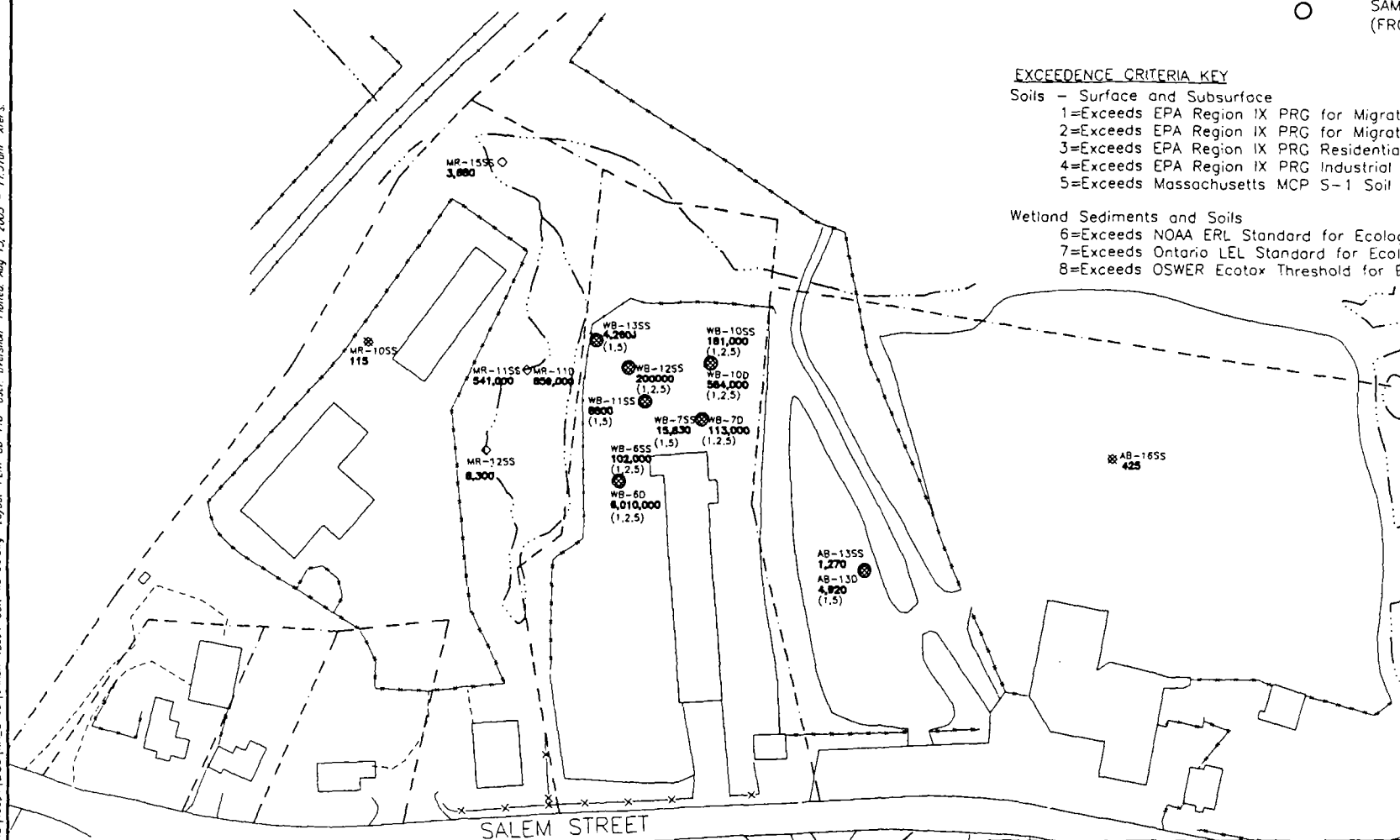
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS

PENTA-CB(#118) IN
SURFACE/SUBSURFACE SOILS
AND WET LAND SEDIMENTS AND SOILS (pg/g)

DATE: 07/31/03 DRAWN: BCY/CON

FIGURE 6-15

J = ESTIMATED CONCENTRATION

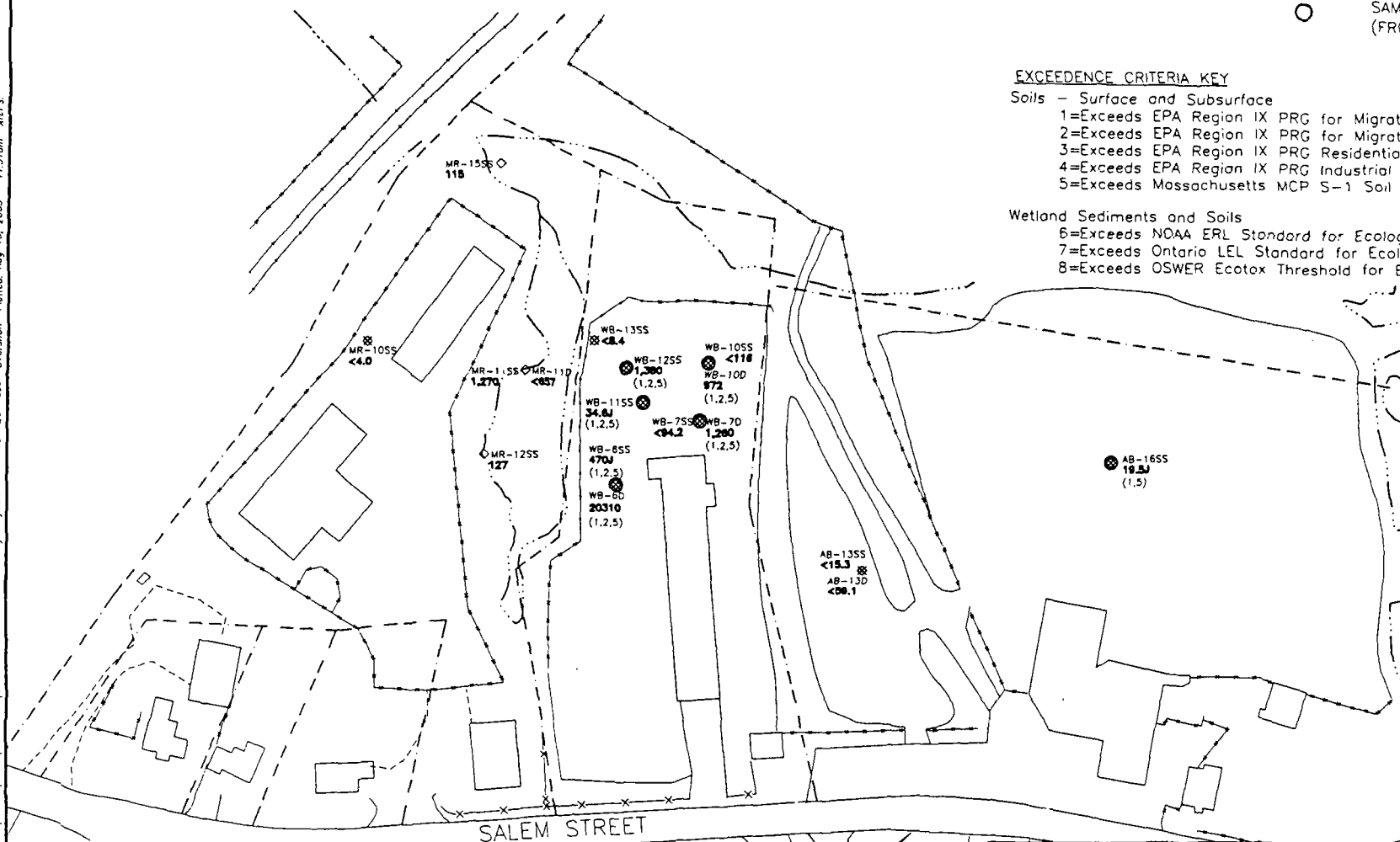
- - - - - STREAM OR WETLAND
 - - - - - PROPERTY LINE
 ◆ ID
 ◇ WB-9
 ⊗ AB-16
 ○

SEDIMENT AND SOIL SAMPLING (1993)
 SEDIMENT AND SOIL SAMPLING (2002)
 SURFACE/SALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
 SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
3=Exceeds EPA Region IX PRG Residential Soil Standard
4=Exceeds EPA Region IX PRG Industrial Soil Standard
5=Exceeds Massachusetts MCP S-1 Soil Standard

6=Exceeds NOAA ERL Standard for Ecological Risk
7=Exceeds Ontario LEL Standard for Ecological Risk
8=Exceeds OSWER Ecotox Threshold for Ecological Risk



SALEM STREET



50' 0 100'
GRAPHIC SCALE 1"=100'

**SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS**

PENTA-CB(#126) IN
SURFACE/SUBSURFACE SOILS
AND WET LAND SEDIMENTS AND SOILS (pg/g)

DATE: 07/31/03

PRVN: BcV/CON

FIGURE 6-16

File: F:\PROJECTS\15094\CADD\RT_5-03\CNCR-15094-CON-WL-22.dwg Layout: PENIA-CB-126 User: gVersion Plotted: Aug 11, 2003 - 11:51am Xref's:

DATA POSTED BY SAMPLES IS THE ARSENIC CONCENTRATION IN (mg/Kg)

J = ESTIMATED CONCENTRATION

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

LEGEND	
—	STREAM OR WETLAND
- - -	PROPERTY LINE
—+—	FENCE
—+—+—	RAILROAD TRACK
◆ ID	SEDIMENT/WETLAND SOIL SAMPLE (1993)
◇ WB-9	SEDIMENT/WETLAND SOIL SAMPLE (2002)
⊗ AB-16	SURFACE/SALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
○	SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

EXCEEDENCE CRITERIA KEY

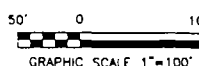
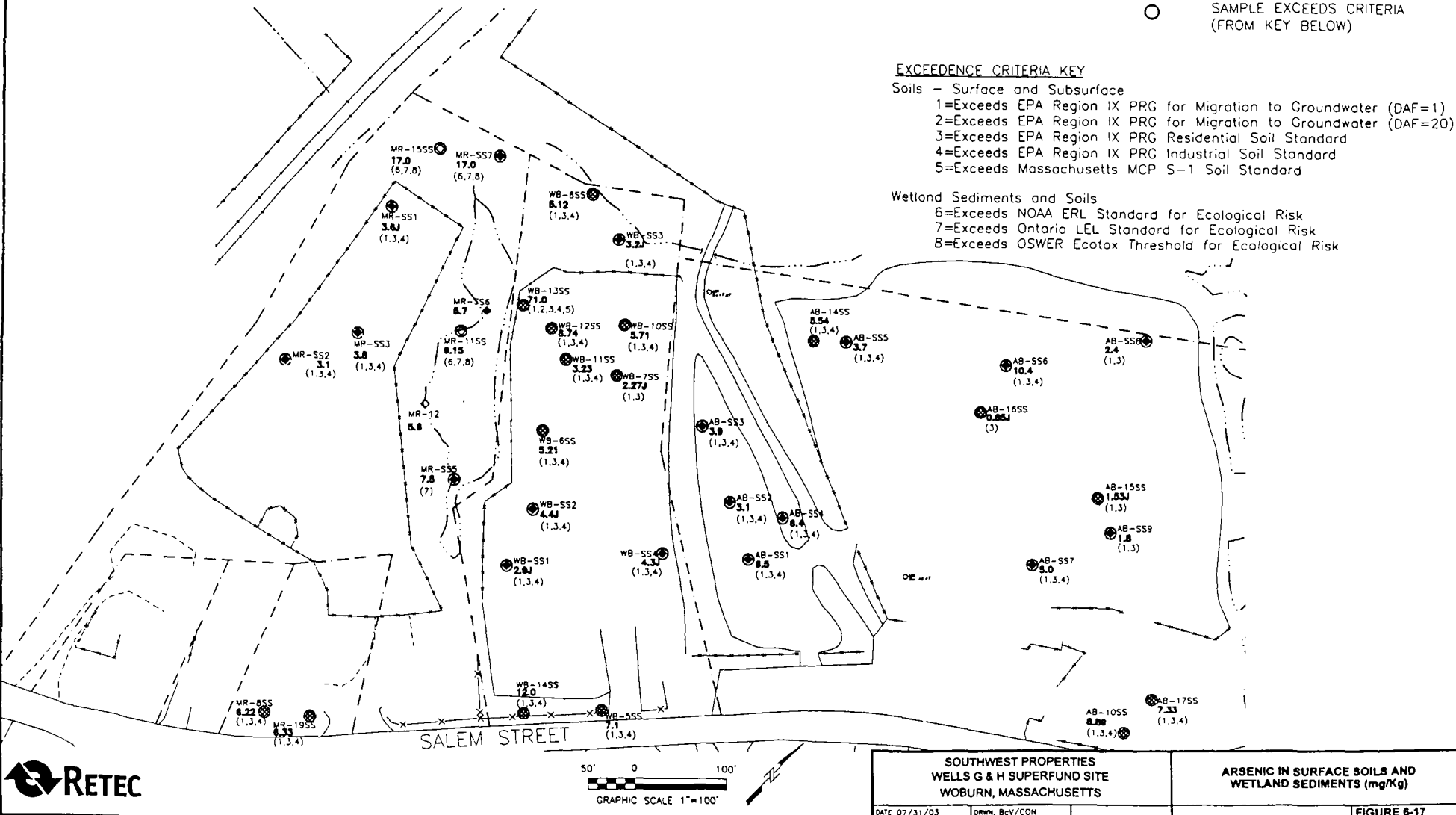
Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk

File F:\PROJECTS\15084\15084\15084-01\CMGR-15084-CON-SS-17.dwg Layout SS User: Bheerthi Printed: Aug 11, 2003 12:40pm 24x36



SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBBURN, MASSACHUSETTS		ARSENIC IN SURFACE SOILS AND WETLAND SEDIMENTS (mg/Kg)
DATE 07/31/03	DRAWN BY/CON	FIGURE 6-17

DATA POSTED BY SAMPLES IS THE ARSENIC CONCENTRATION IN (mg/Kg)
 J = ESTIMATED CONCENTRATION
 B = DETECTED IN FIELD BLANK
 THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

--- STREAM OR WETLAND
 --- PROPERTY LINE
 --- FENCE
 --- RAILROAD TRACK

◇ ID
 ◇ WB-9 SEDIMENT/WETLAND SOIL SAMPLE (J02)
 ⊗ AB-16 SURFACE/SALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
 ○ SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

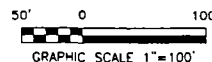
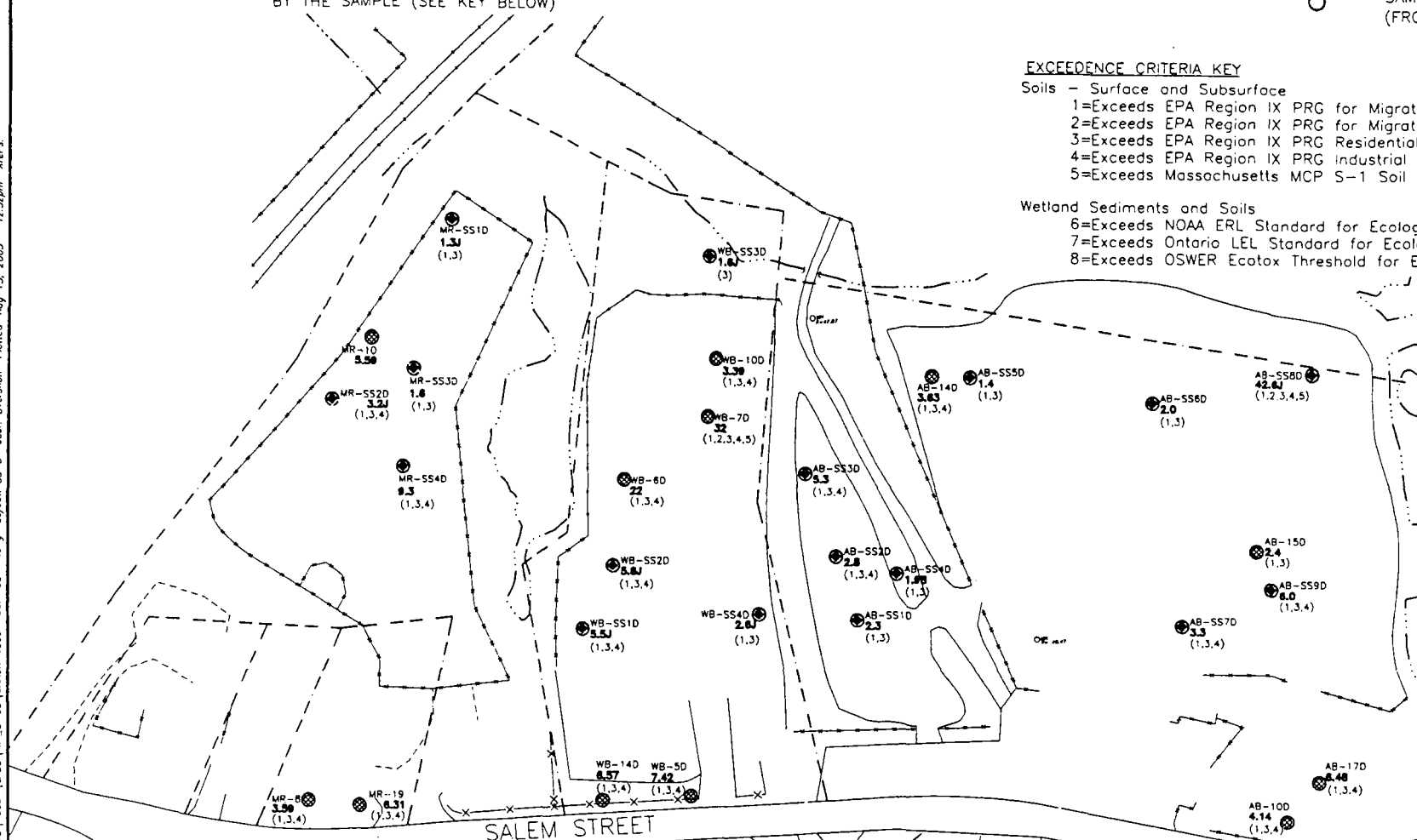
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



SOUTHWEST PROPERTIES
 WELLS G & H SUPERFUND SITE
 WOBURN, MASSACHUSETTS

ARSENIC IN SUBSURFACE SOILS AND
 WETLAND SOILS (mg/Kg)

DATE: 07/31/03

OWNER: B&V/CON

FIGURE 6-18

DATA POSTED BY SAMPLES IS THE CHROMIUM CONCENTRATION IN (mg/Kg)

J = ESTIMATED CONCENTRATION

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

- LEGEND**
- · — · — STREAM OR WETLAND
 - - - - - PROPERTY LINE
 - ◆ ID
 - ◇ WB-9 SEDIMENT/WETLAND SOIL SAMPLE (2002)
 - ⊗ AB-16 SURFACE/SHALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
 - SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

EXCEEDENCE CRITERIA KEY

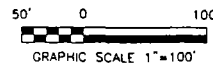
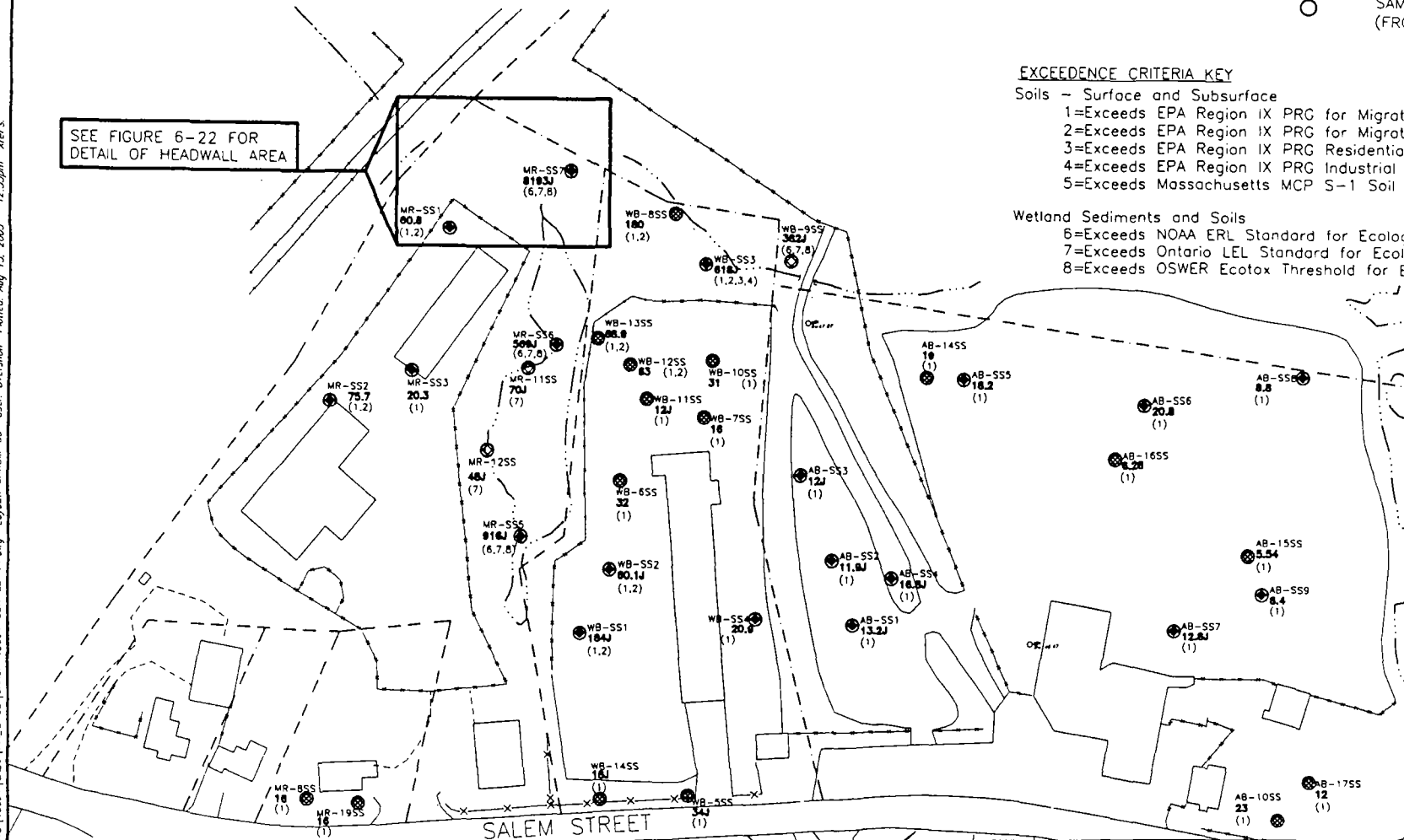
Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

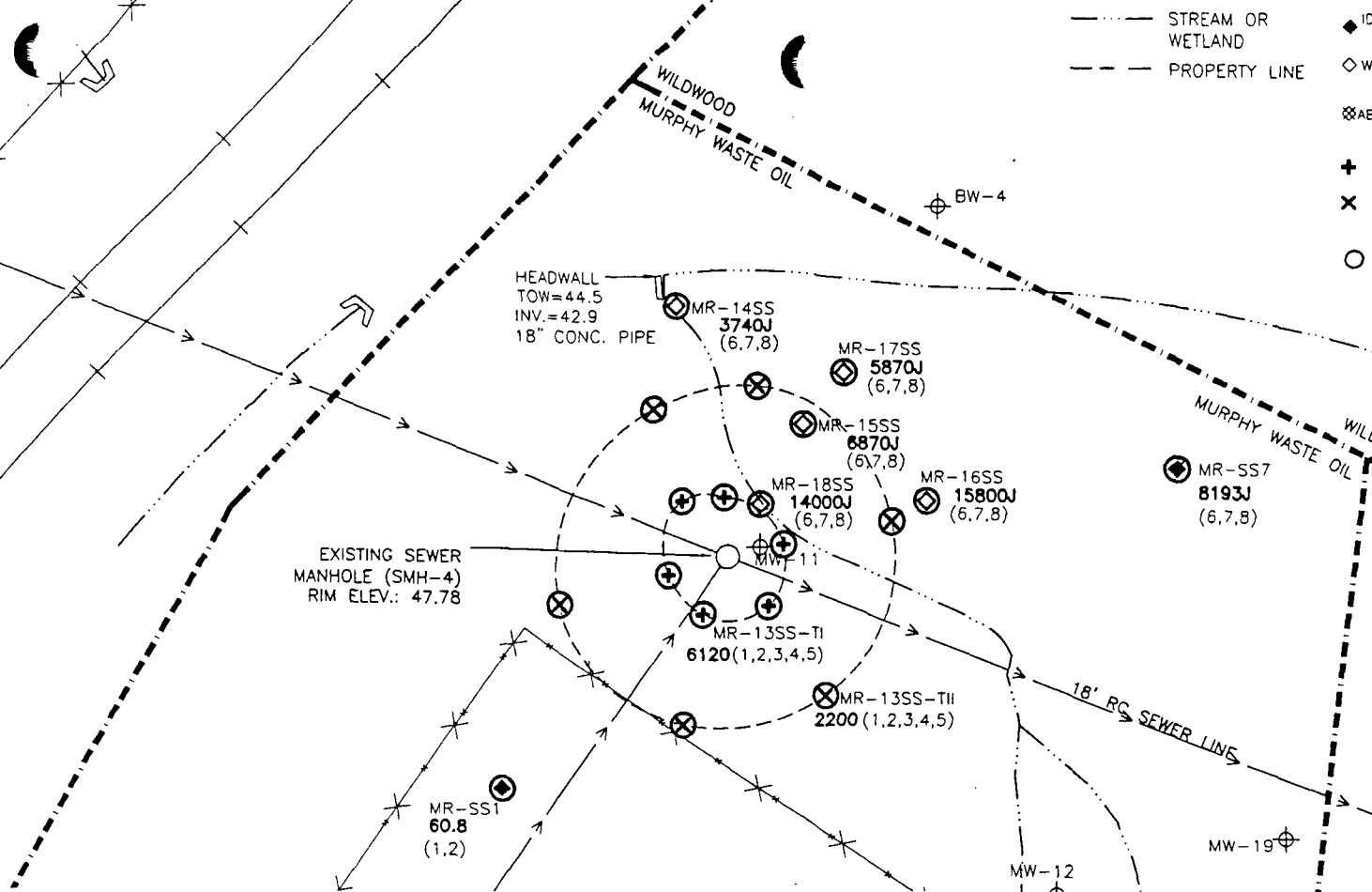
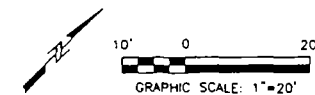
- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk

SEE FIGURE 6-22 FOR
DETAIL OF HEADWALL AREA



SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBURN, MASSACHUSETTS		CHROMIUM IN SURFACE SOILS AND WETLAND SEDIMENTS (mg/Kg)	
DATE: 07/31/03	DRAWN: BGV/CON	FIGURE 6-21	

- - - - - STREAM OR WETLAND
 - - - - - PROPERTY LINE
 ◆ ID SOIL SAMPLE (1)
 ◇ WB-9 SEDIMENT/WETLAND SOIL SAMPLE (2)
 ⊗ AB-16 SURFACE/SHALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
 + MR-13 TIER I COMPOSITE SAMPLE
 × MR-13 TIER II COMPOSITE SAMPLE
 ○ SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)



EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk

NOTE:

DATA POSTED BY SAMPLES IS THE CHROMIUM CONCENTRATION IN (mg/Kg)

J = ESTIMATED CONCENTRATION

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY LEFT)



SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBURN, MASSACHUSETTS	CHROMIUM IN SURFACE SOILS AND WETLAND SEDIMENTS (mg/Kg) MURPHY WASTE OIL CULVERT AREA
DATE: 07/31/03	DRAWN: BGV/CON
FIGURE 6-22	

DATA POSTED BY SAMPLES IS THE CHROMIUM CONCENTRATION IN (mg/Kg)

J = ESTIMATED CONCENTRATION

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

— — — — —	STREAM OR WETLAND	◆ ID	SEDIMENT/WETLAND SOIL SAMPLE (1993)
- - - - -	PROPERTY LINE	◇ WB-9	SEDIMENT/WETLAND SOIL SAMPLE (2002)
		⊗ AB-16	SURFACE/SHALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
		○	SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

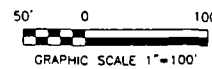
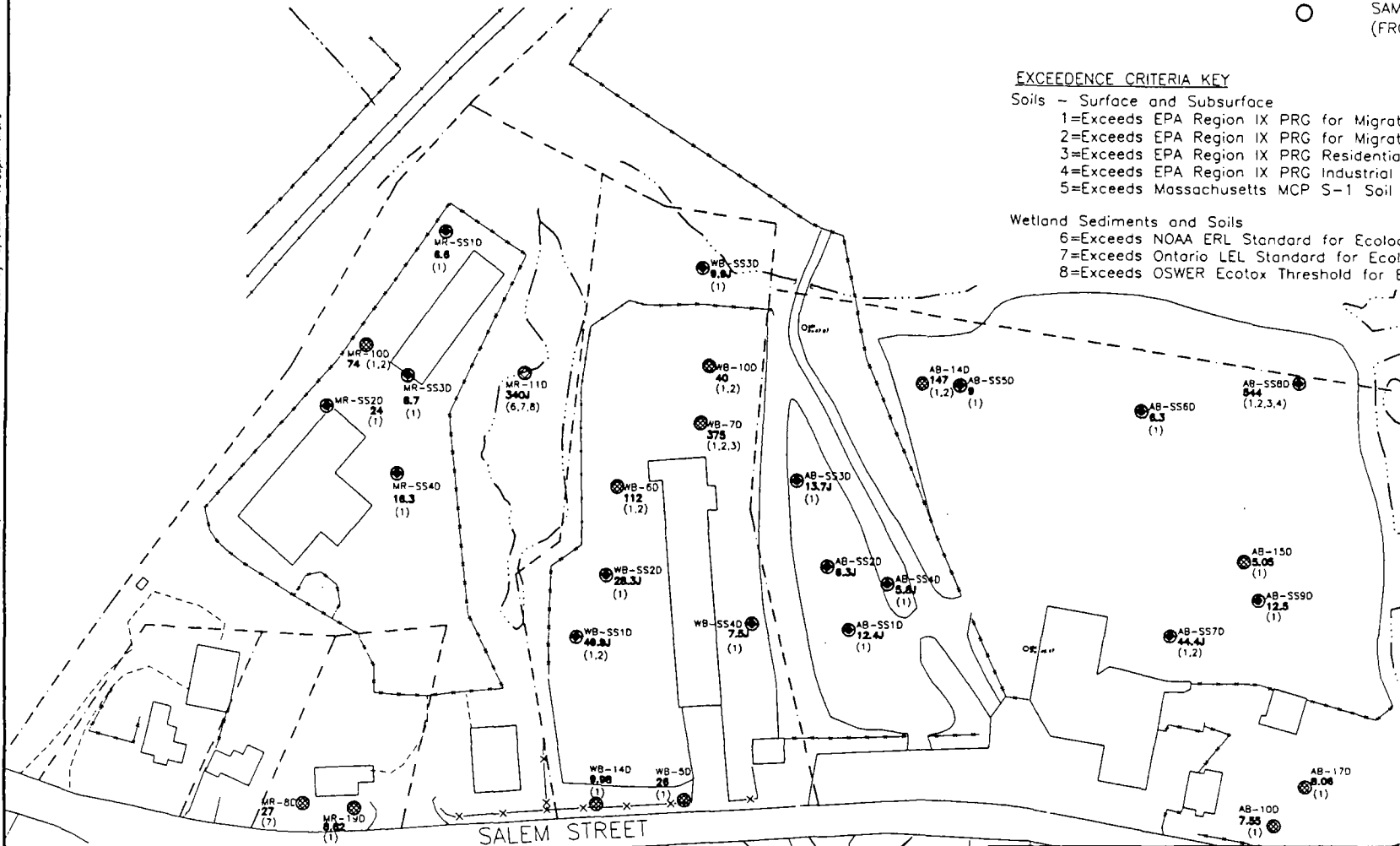
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

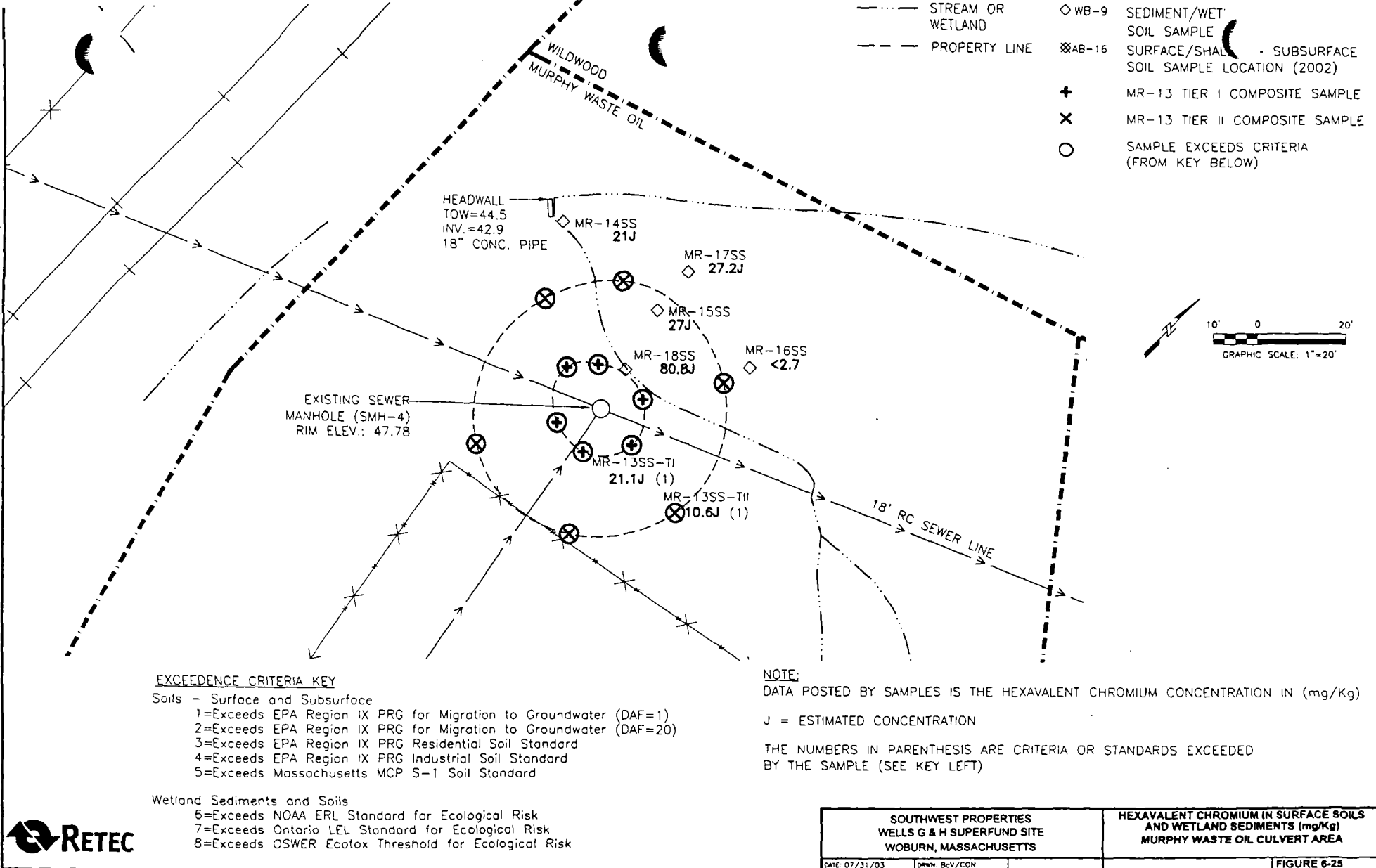
Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBBURN, MASSACHUSETTS		CHROMIUM IN SUBSURFACE SOILS AND WETLAND SOILS (mg/Kg)
DATE 07/31/03	DRAWN: BcV/CON	FIGURE 6-23

File: F:\PROJECTS\15094\CA00\BTL_5-01\CONGR-15094-CON-SS-14.dwg Layout: CHROM-SS-D User: Blesston Plotted: Aug 11, 2003 12:55pm Xref's



DATA POSTED BY SAMPLES IS THE HEXAVALENT CHROMIUM CONCENTRATION IN ($\mu\text{g}/\text{Kg}$)

J = ESTIMATED CONCENTRATION

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

- LEGEND**
- STREAM OR WETLAND
 - - - PROPERTY LINE
 - ◇ WB-9 SEDIMENT/WETLAND SOIL SAMPLE (2002)
 - ⊗ AB-16 SURFACE/SALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
 - SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

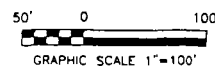
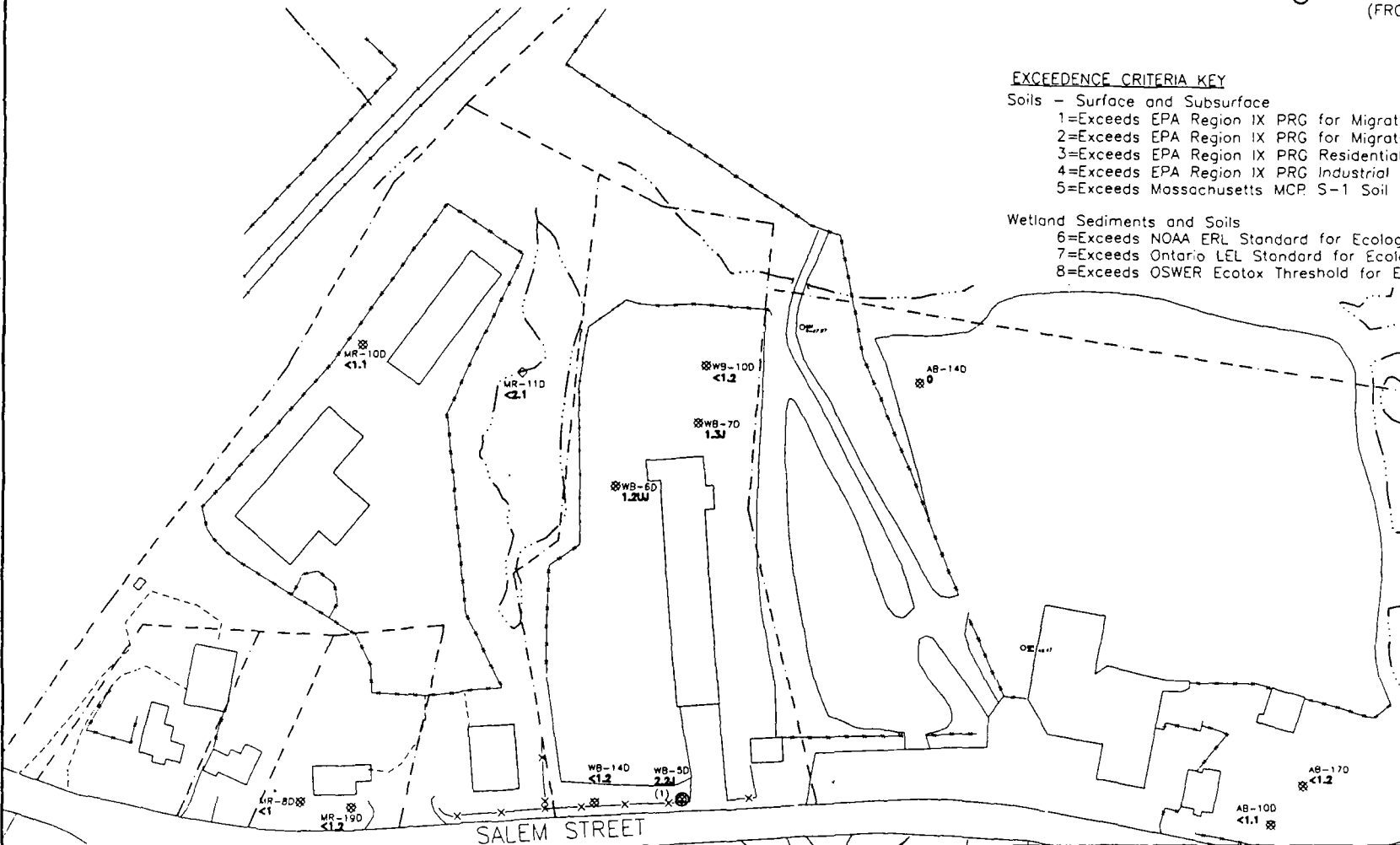
EXCEEDENCE CRITERIA KEY

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk



SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS

HEXAVALENT CHROMIUM IN SUBSURFACE SOILS
AND WETLAND SOILS (mg/Kg)

DATE: 07/25/03

DRAWN BY: CON

FIGURE 6-26

ESTIMATED CONCENTRATION

THE NUMBER IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED
BY THE SAMPLE (SEE KEY BELOW)

STREAM OR WETLAND
PROPERTY LINE
FENCE
RAILROAD TRACK
WB-9 SEDIMENT AND SOIL SAMPLE (2002)
AB-16 SURFACE/SALLOW- SUBSURFACE SOIL SAMPLE LOCATION (2002)
SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

EXCEEDENCE CRITERIA KEY

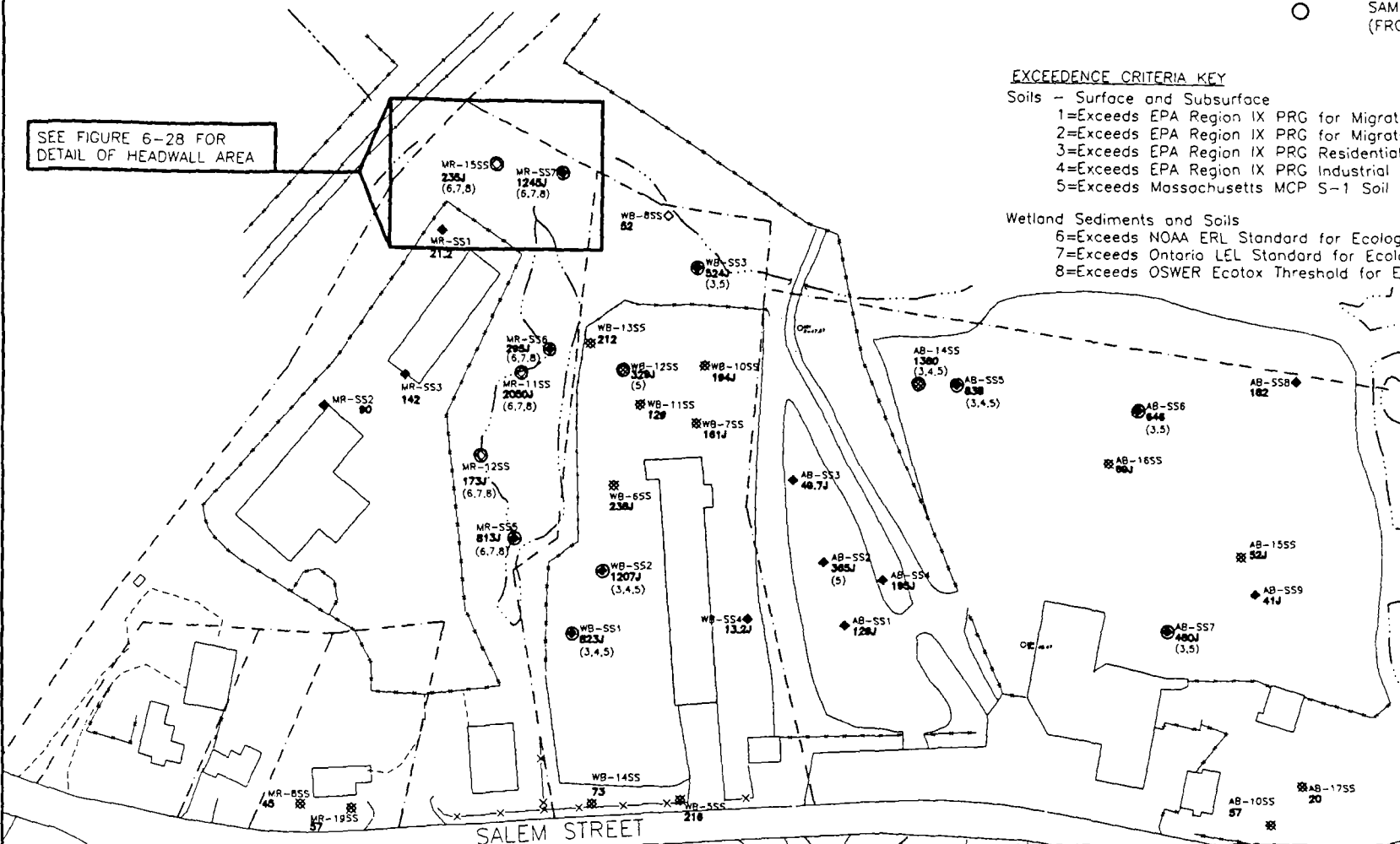
Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
- 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
- 3=Exceeds EPA Region IX PRG Residential Soil Standard
- 4=Exceeds EPA Region IX PRG Industrial Soil Standard
- 5=Exceeds Massachusetts MCP S-1 Soil Standard

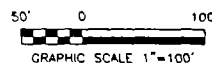
Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk

SEE FIGURE 6-28 FOR
DETAIL OF HEADWALL AREA



SALEM STREET

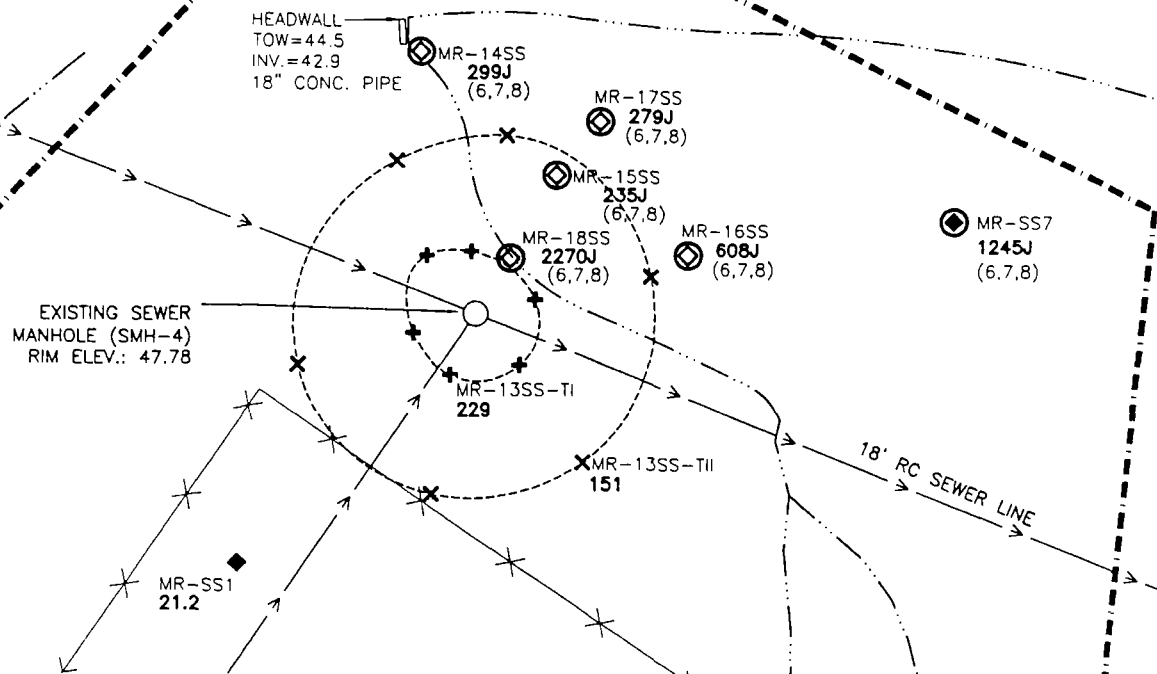
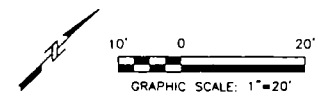
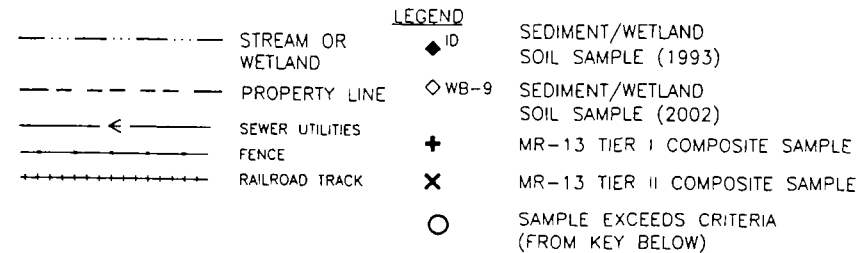


SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBBURN, MASSACHUSETTS

LEAD IN SURFACE SOILS AND
WETLAND SEDIMENTS (mg/Kg)

DATE: 07/31/03 DRAWN BY: CON

FIGURE 6-27



EXCEEDENCE CRITERIA KEY

- Soils - Surface and Subsurface
- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
 - 2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
 - 3=Exceeds EPA Region IX PRG Residential Soil Standard
 - 4=Exceeds EPA Region IX PRG Industrial Soil Standard
 - 5=Exceeds Massachusetts MCP S-1 Soil Standard

Wetland Sediments and Soils

- 6=Exceeds NOAA ERL Standard for Ecological Risk
- 7=Exceeds Ontario LEL Standard for Ecological Risk
- 8=Exceeds OSWER Ecotox Threshold for Ecological Risk

NOTE:

DATA POSTED BY SAMPLES IS THE LEAD CONCENTRATION IN (mg/Kg)









J = ESTIMATED CONCENTRATION

THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY LEFT)



SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBURN, MASSACHUSETTS		LEAD IN WETLAND SEDIMENTS (mg/Kg) MURPHY WASTE OIL CULVERT AREA
DATE 07/31/03	DRAWN: BGV/CON	FIGURE 6-28

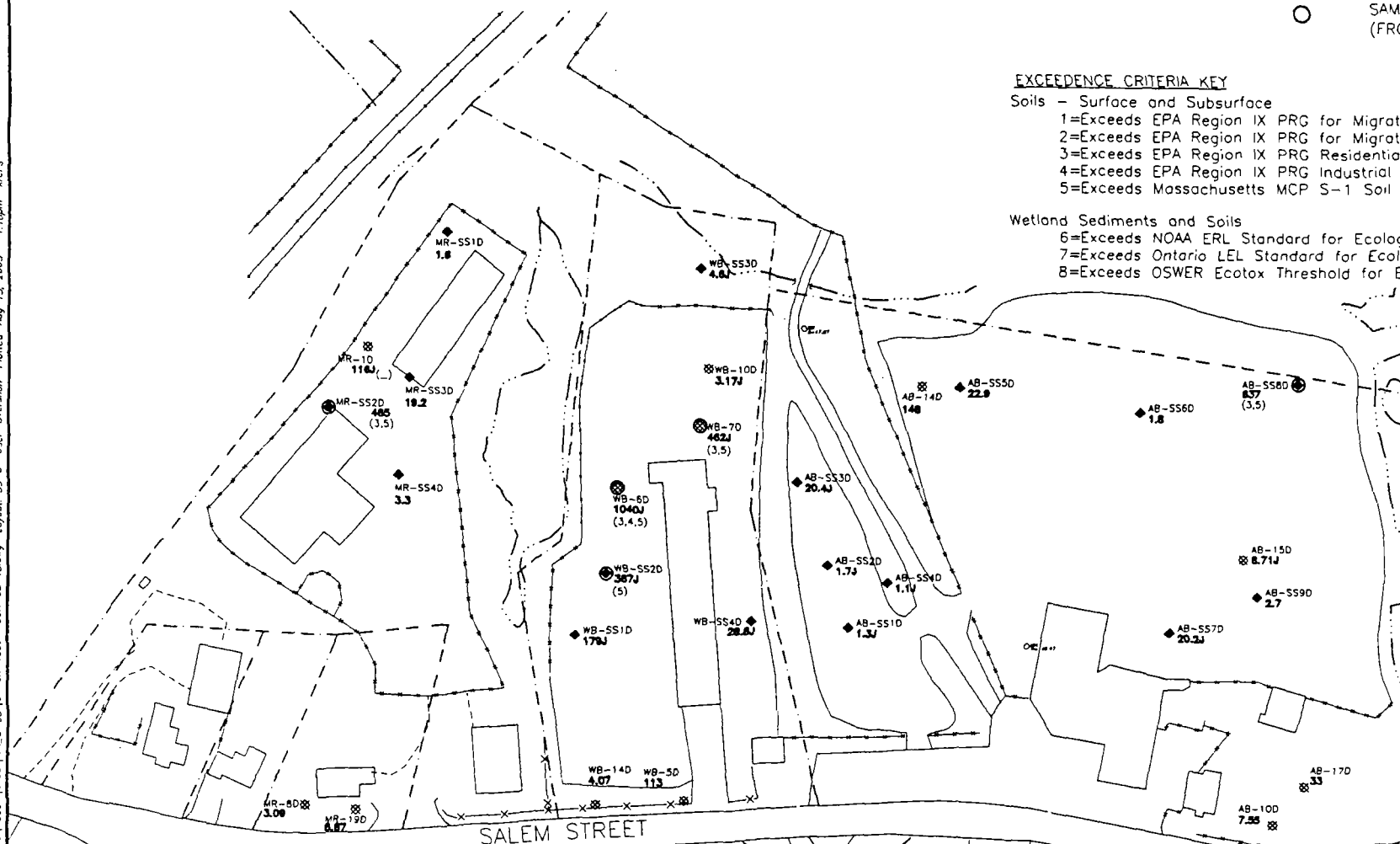
THE NUMBERS IN PARENTHESIS ARE CRITERIA OR STANDARDS EXCEEDED BY THE SAMPLE (SEE KEY BELOW)

	STREAM OR WETLAND	 ID	SEDIMENT/SHALLOW SOIL SAMPLE (2002)
	PROPERTY LINE	 WB-9	SEDIMENT/SHALLOW SOIL SAMPLE (2002)
	FENCE	 AB-16	SURFACE/SHALLOW-SUBSURFACE SOIL SAMPLE LOCATION (2002)
	RAILROAD TRACK		SAMPLE EXCEEDS CRITERIA (FROM KEY BELOW)

Soils - Surface and Subsurface

- 1=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=1)
2=Exceeds EPA Region IX PRG for Migration to Groundwater (DAF=20)
3=Exceeds EPA Region IX PRG Residential Soil Standard
4=Exceeds EPA Region IX PRG Industrial Soil Standard
5=Exceeds Massachusetts MCP S-1 Soil Standard

6=Exceeds NOAA ERL Standard for Ecological Risk
7=Exceeds Ontario LEL Standard for Ecological Risk
8=Exceeds OSWER Ecotox Threshold for Ecological Risk



50' 0 100
GRAPHIC SCALE 1"=100'

**SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS**

**LEAD IN SUBSURFACE SOILS AND
WETLAND SOILS (mg/Kg)**

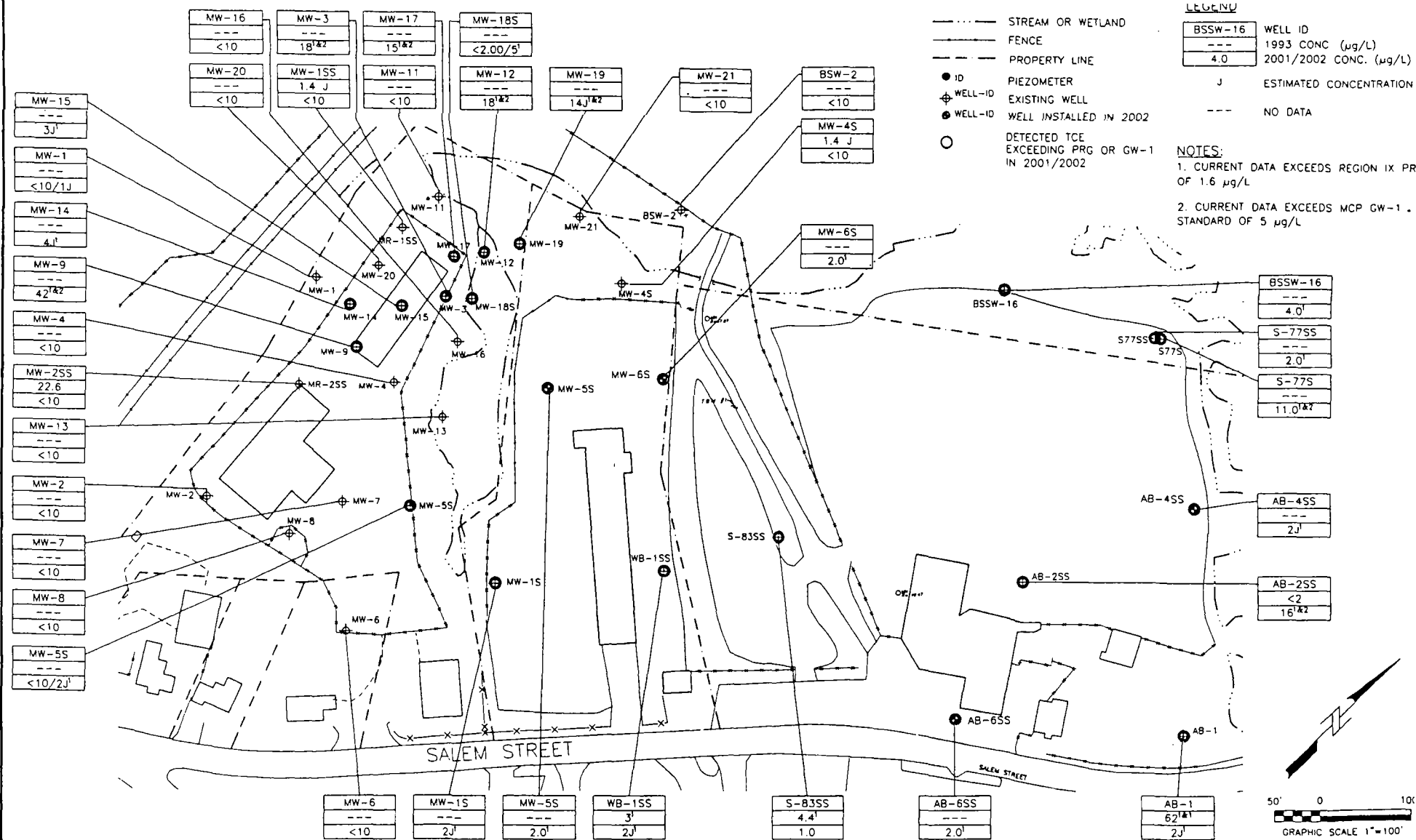
DATE 07/31/03

DRWN. BcV/CON

FIGURE 6-29

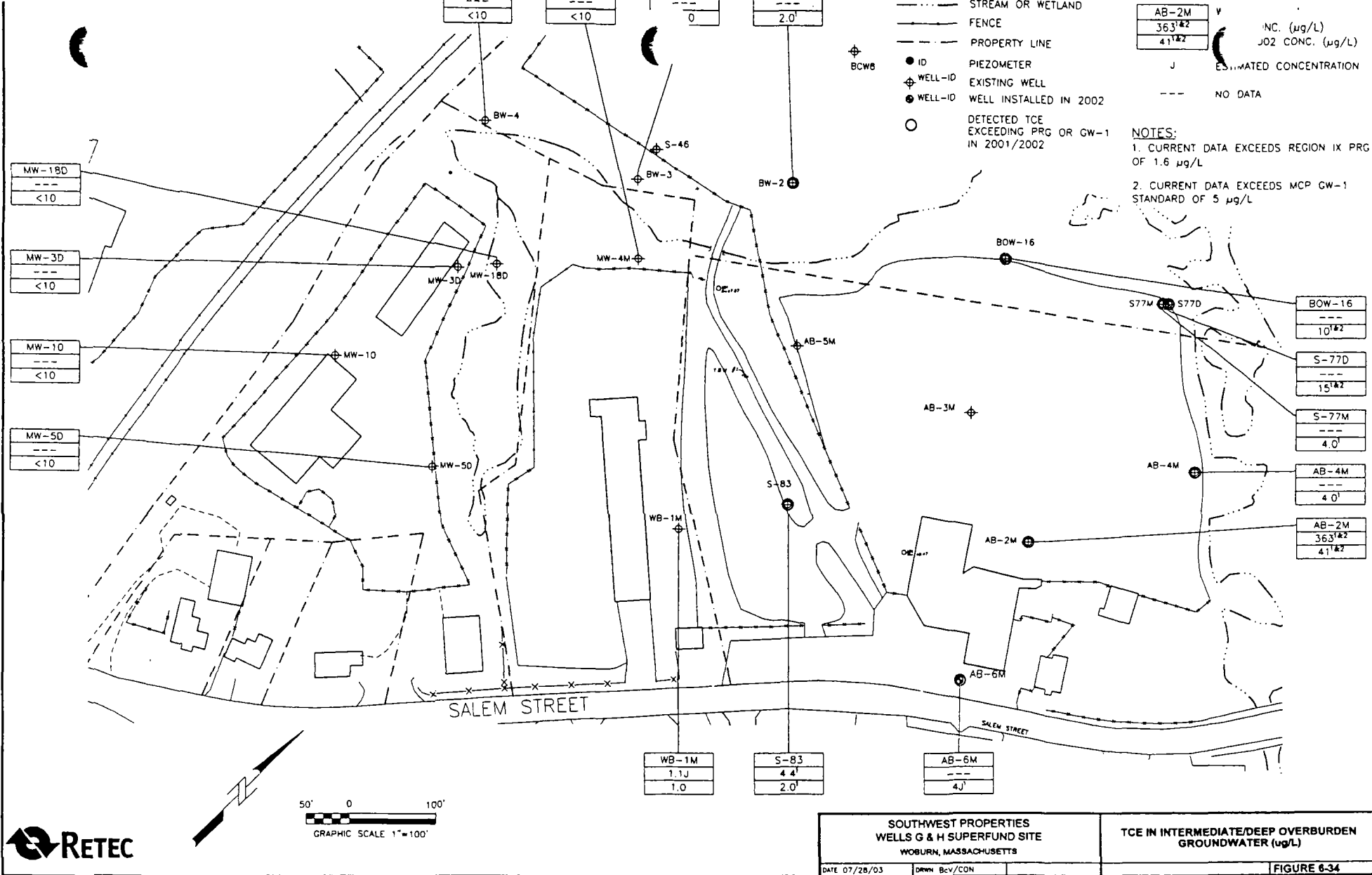
File: F:\PROJECTS\15094\CADD\RFL_5-03\CNAGR-15094-CON-SS-18.dwg Layout: SS-D User: BVersion Plotted: Aug 13, 2003 - 1:18pm Xref's:

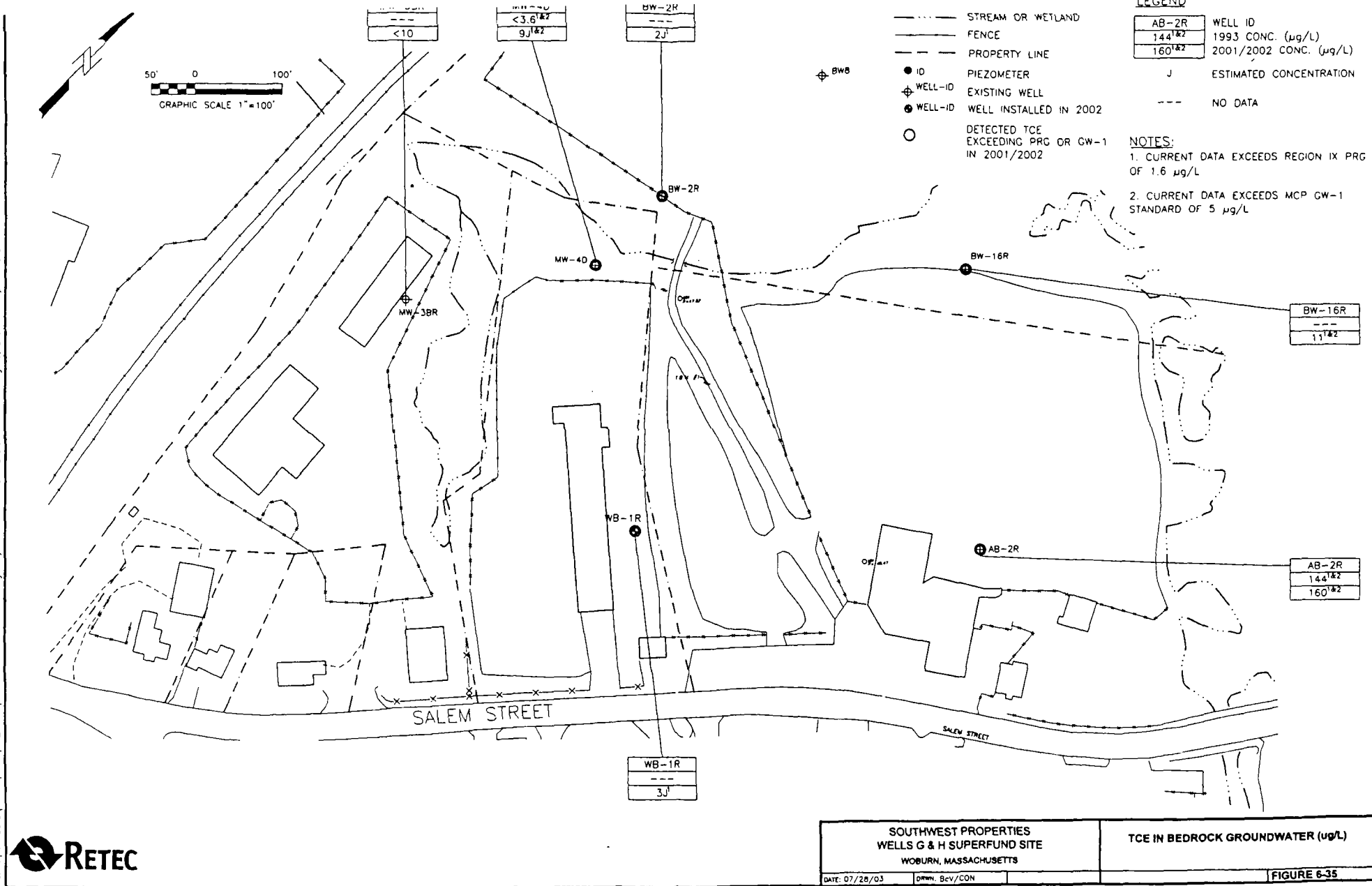
File: F:\PROJECTS\15094\15094-CON-CW-10.dwg Layout: SOB-TCE User: Bletcher Plotted: Aug 11, 2003 1:40pm Xref's



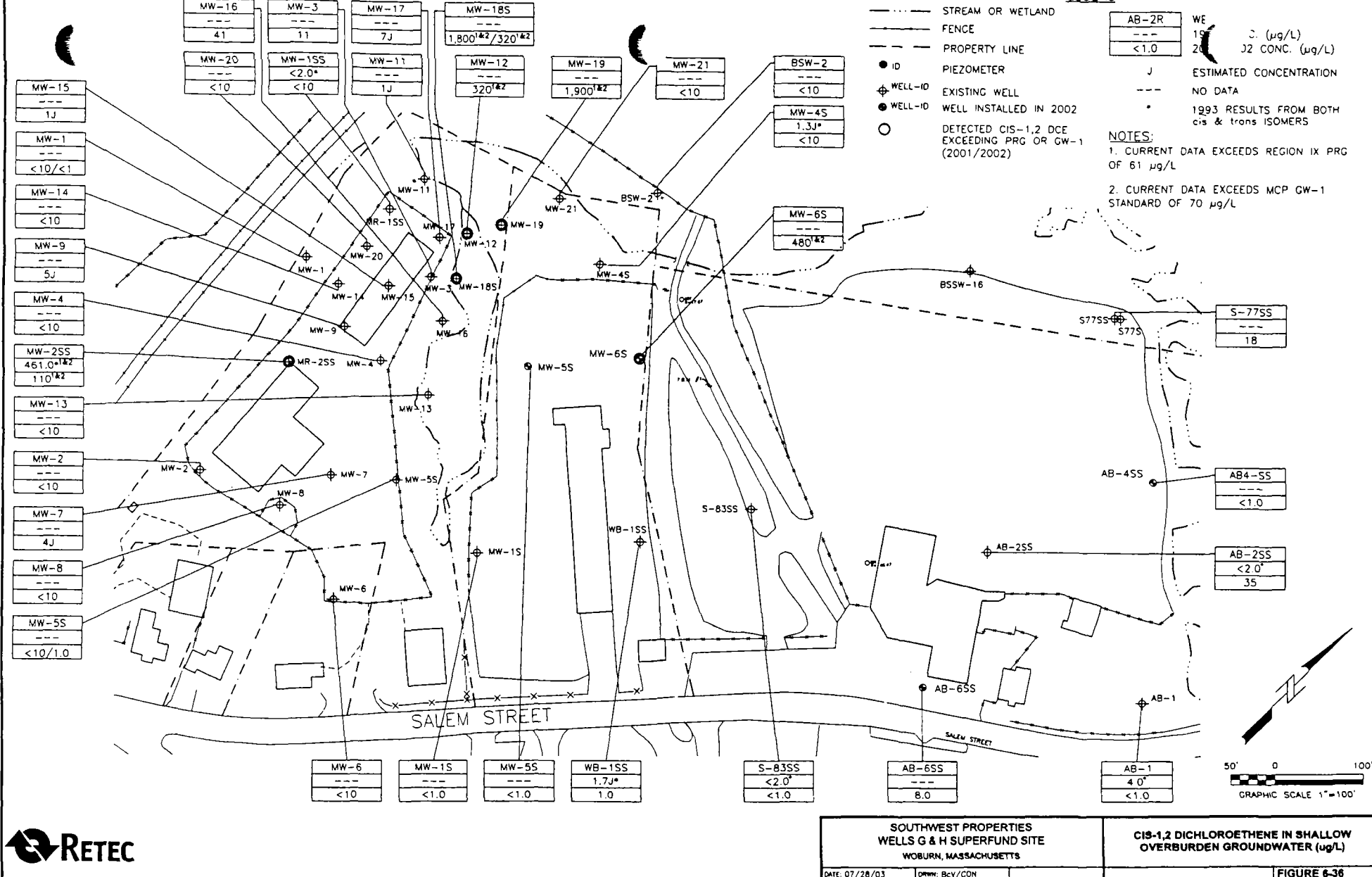
SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBURN, MASSACHUSETTS		TCE IN SHALLOW OVERBURDEN GROUNDWATER (μg/L)	
DATE: 07/28/03	DRWN: BGV/CON	FIGURE 6-33	

File F:\PROJECTS\15094\CA00\ART_5-03\CMACR-15094-CON-DW-10.dwg Layout: M-DOB-TCE User: Bershon Plotted: Aug 13, 2003 - 1:44pm Ref's:



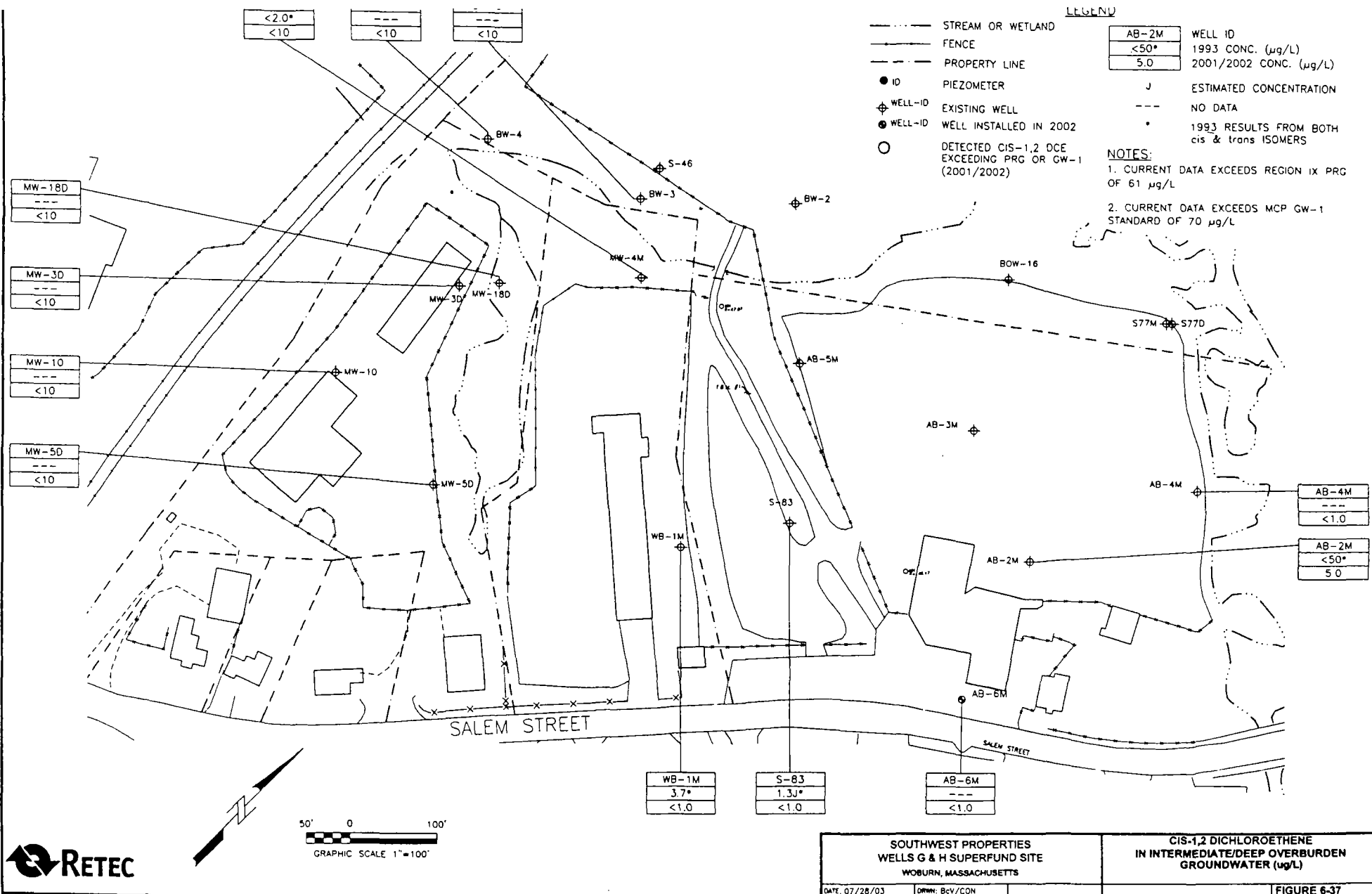


File: F:\PROJECTS\15094\CA00\RY.5-01\CMGR-15094-COM-CW-11.dwg Layout: 508-DCE User: Bletcher Plotted: Aug 11, 2003 - 1:47pm Xref's:



SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBBURN, MASSACHUSETTS		C1S,1,2 DICHLOROETHENE IN SHALLOW OVERBURDEN GROUNDWATER (μg/L)	
DATE: 07/28/03	DRWN: BCY/CON	FIGURE 6-36	

File: F:\PROJECTS\15094\CA00\WPL 5-03\CMGR-15094-CON-OW-11.dwg Layout: W-DOB-DCE User: BWharshon Plotted: Aug 11, 2003 - 1:40pm Xref's:



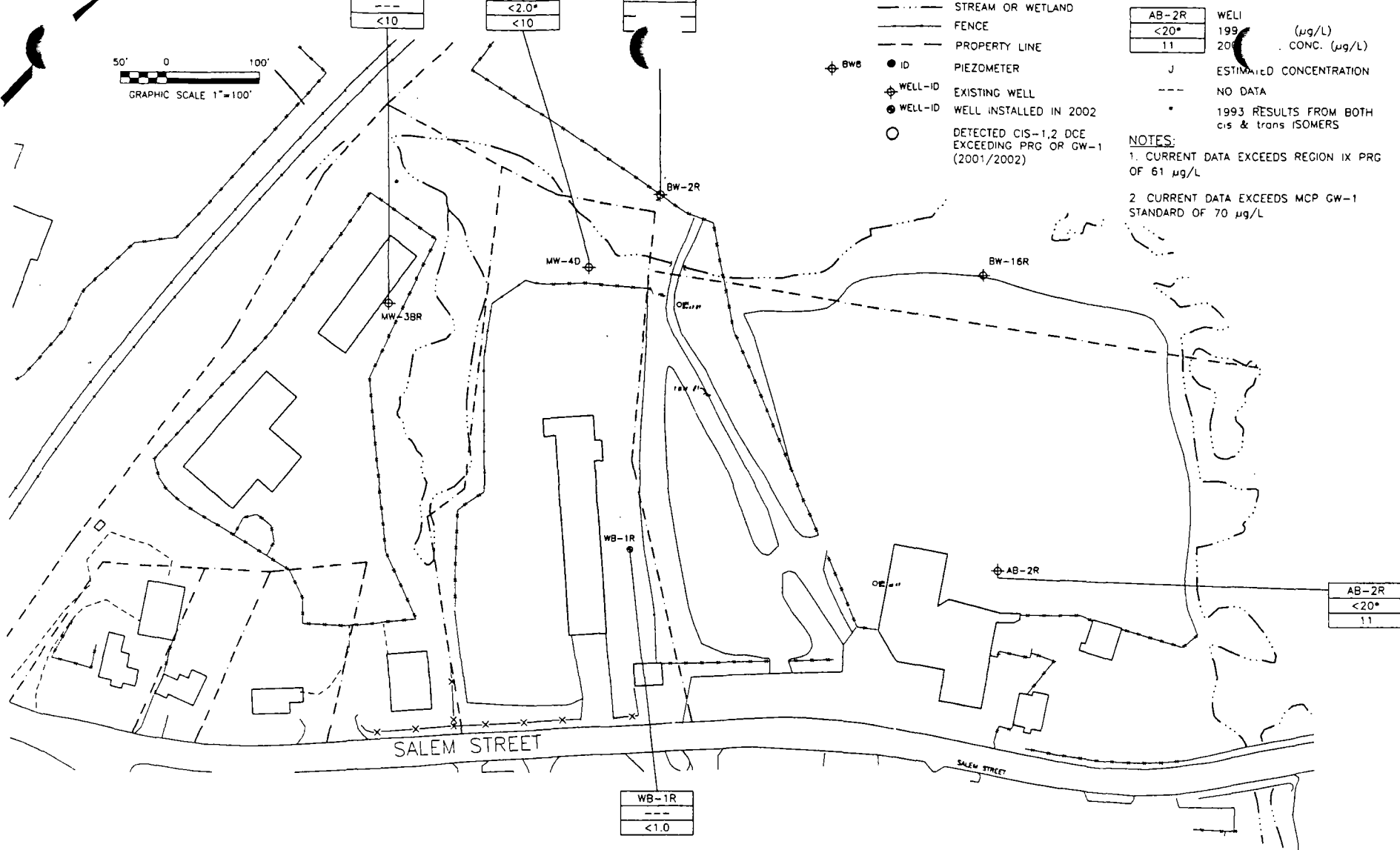
File: F:\PROJECTS\15094\CA00\REL_5-03\CMACR-15094-COM-CW-13.dwg Layout: BR-DCE User: Breshon Plotted: Aug 13, 2003 - 1:50pm Xref's

50' 0 100'
GRAPHIC SCALE 1"=100'

- STREAM OR WETLAND
- FENCE
- PROPERTY LINE
- PIEZOMETER
- ID
- ⊕ WELL-ID
- ⊕ WELL-ID
- DETECTED CIS-1,2 DCE EXCEEDING PRG OR GW-1 (2001/2002)

AB-2R	WELL
<20*	199 (μg/L)
11	200 CONC. (μg/L)
J	ESTIMATED CONCENTRATION
---	NO DATA
*	1993 RESULTS FROM BOTH cis & trans ISOMERS

- NOTES:
1. CURRENT DATA EXCEEDS REGION IX PRG OF 61 μg/L
 2. CURRENT DATA EXCEEDS MCP GW-1 STANDARD OF 70 μg/L



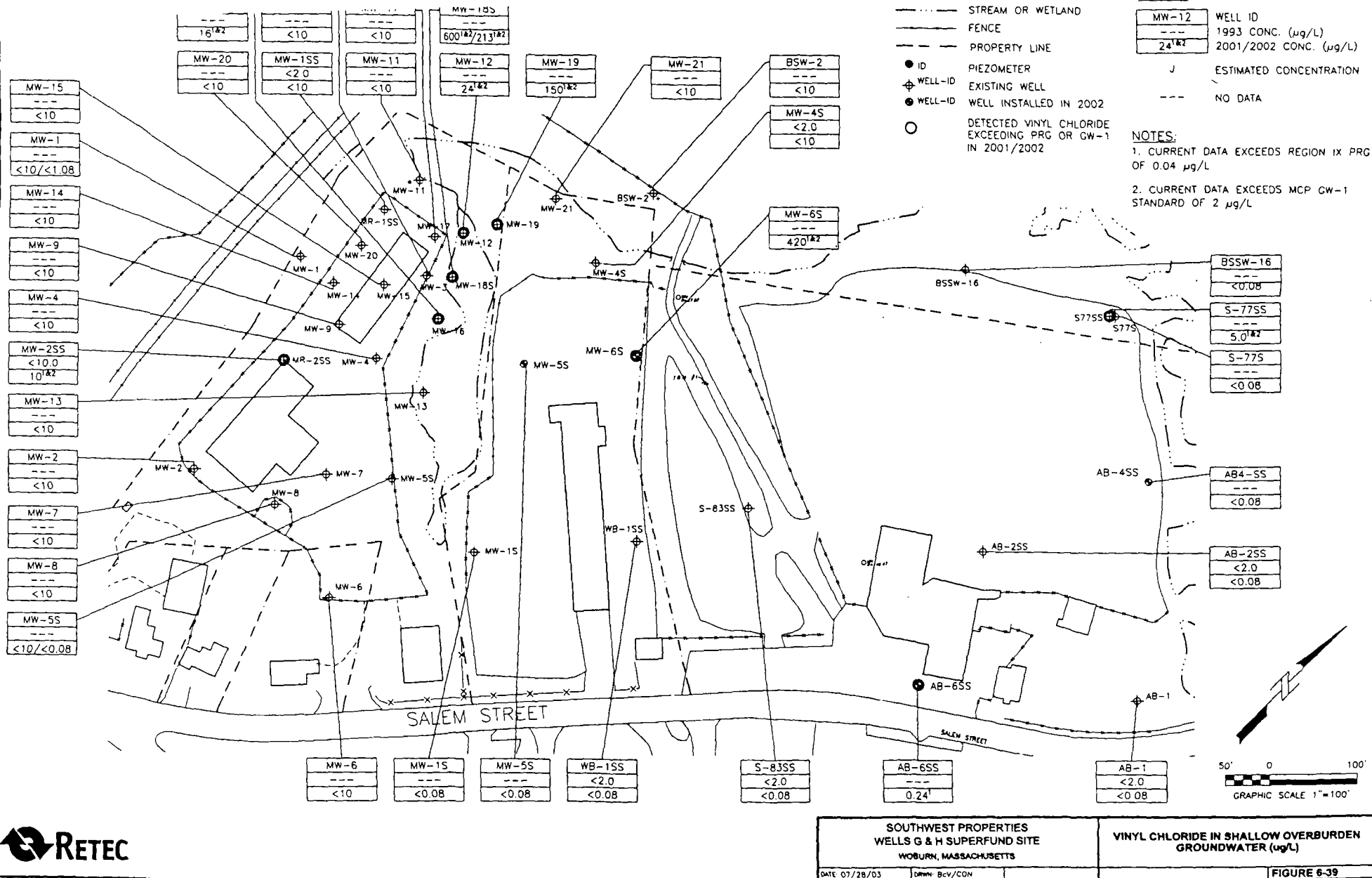
SOUTHWEST PROPERTIES
WELLS G & H SUPERFUND SITE
WOBURN, MASSACHUSETTS

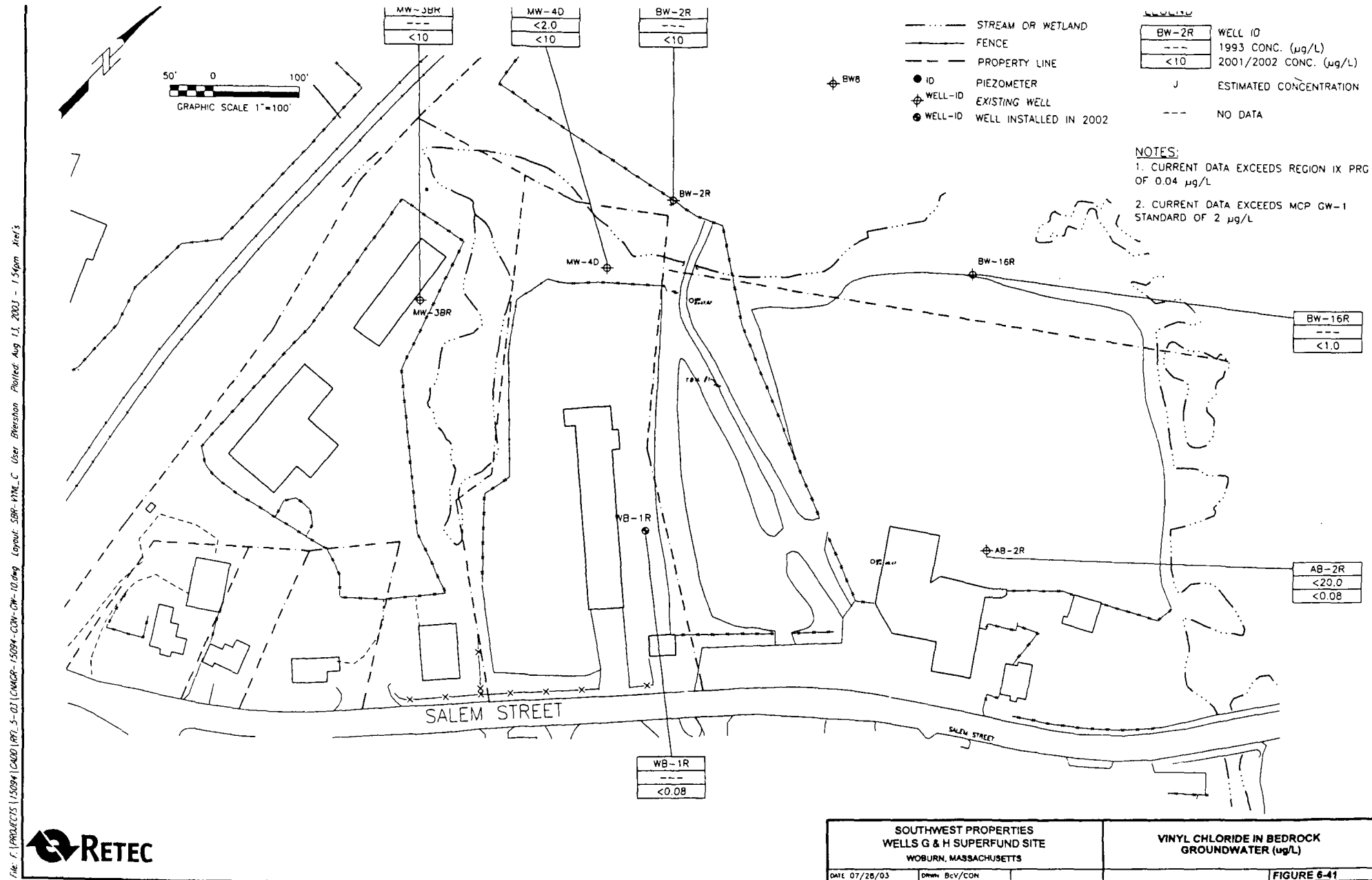
CIS-1,2 DICHLOROETHENE
IN BEDROCK GROUNDWATER (μg/L)

DATE: 07/28/03 DWM: BGV/CON

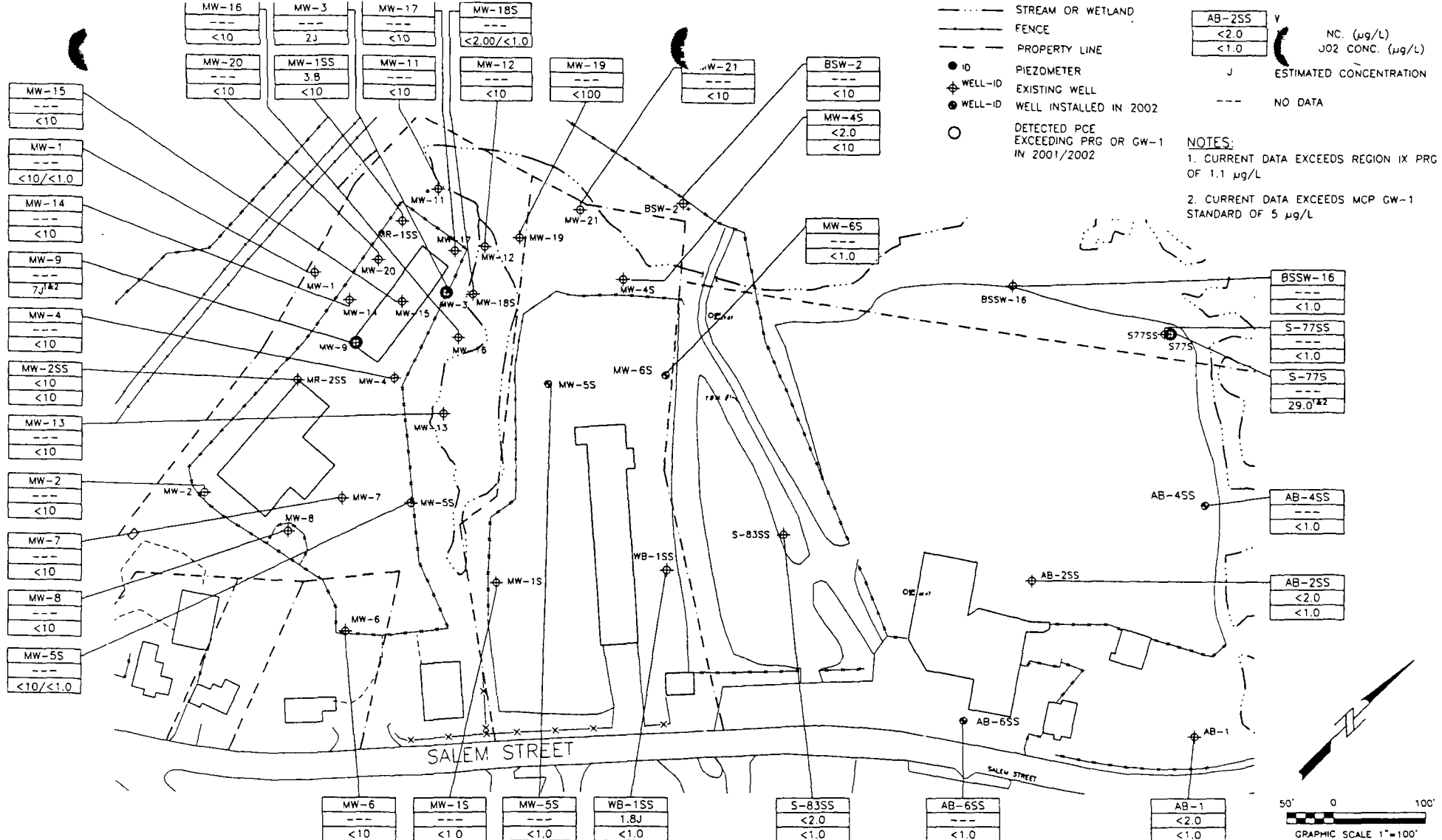
FIGURE 6-38

File: F:\PROJECTS\15054\CA00\RVL 5-01\CMAGR-15054-CON-GW-10.dwg Layout: SWB-VYNL_C User: Breshon Plotted Aug 13, 2003 - 1:52pm Xref's:



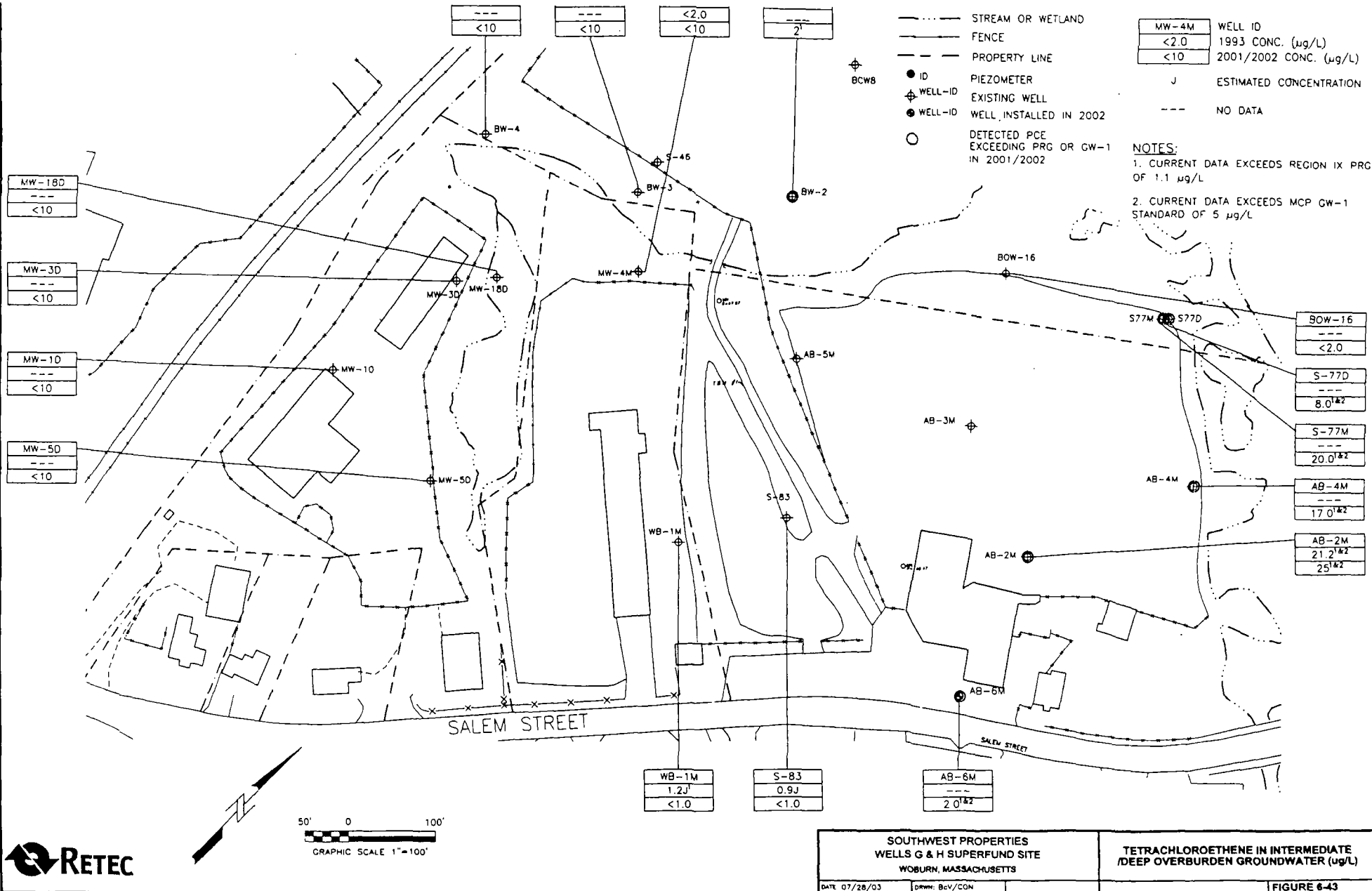


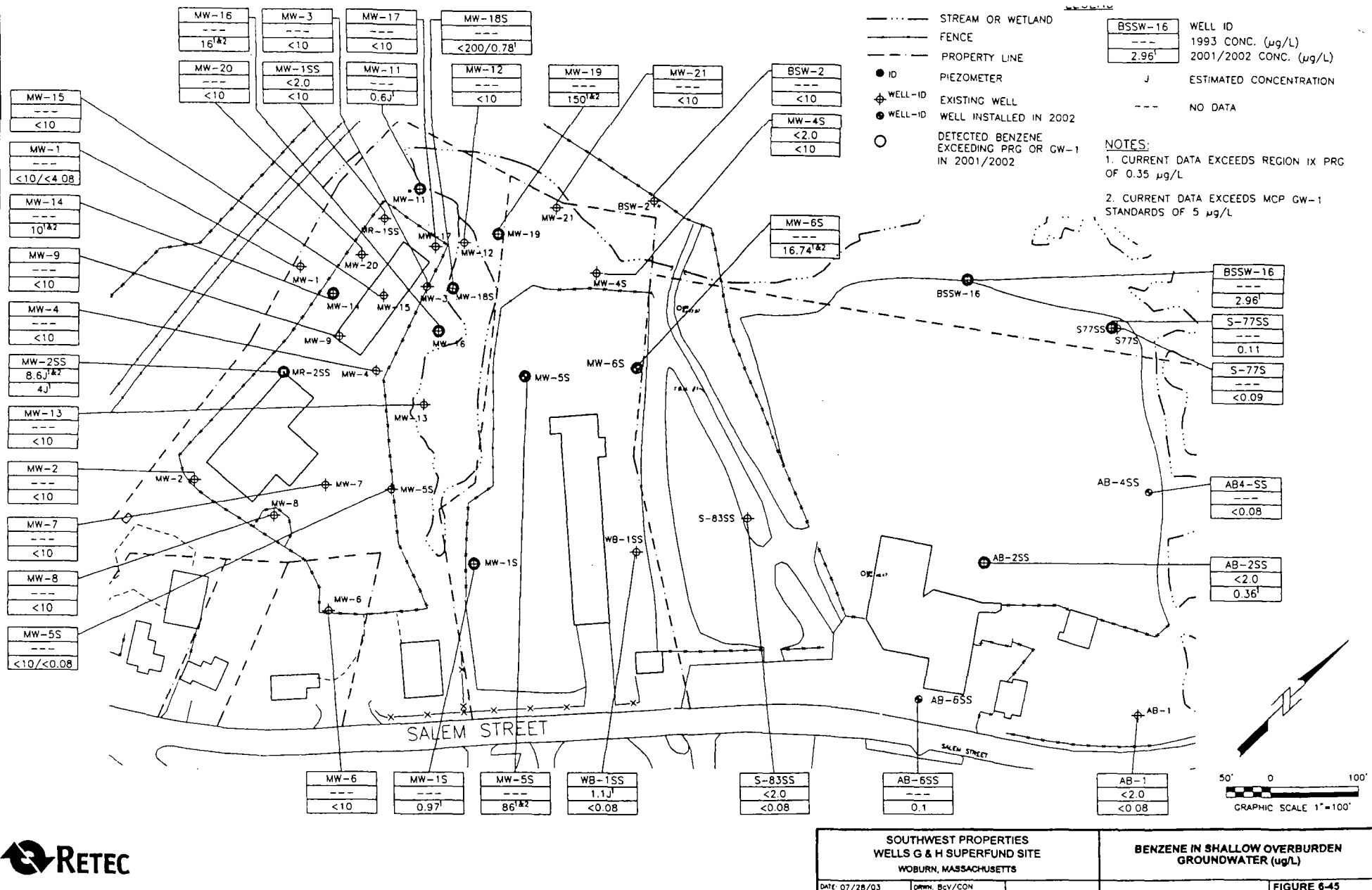
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SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBURN, MASSACHUSETTS		TETRACHLOROETHENE IN SHALLOW OVERBURDEN GROUNDWATER (µg/L)
DATE:	DRWN:	FIGURE 6-42

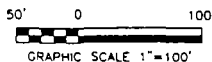
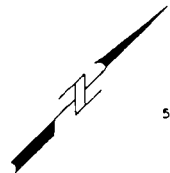
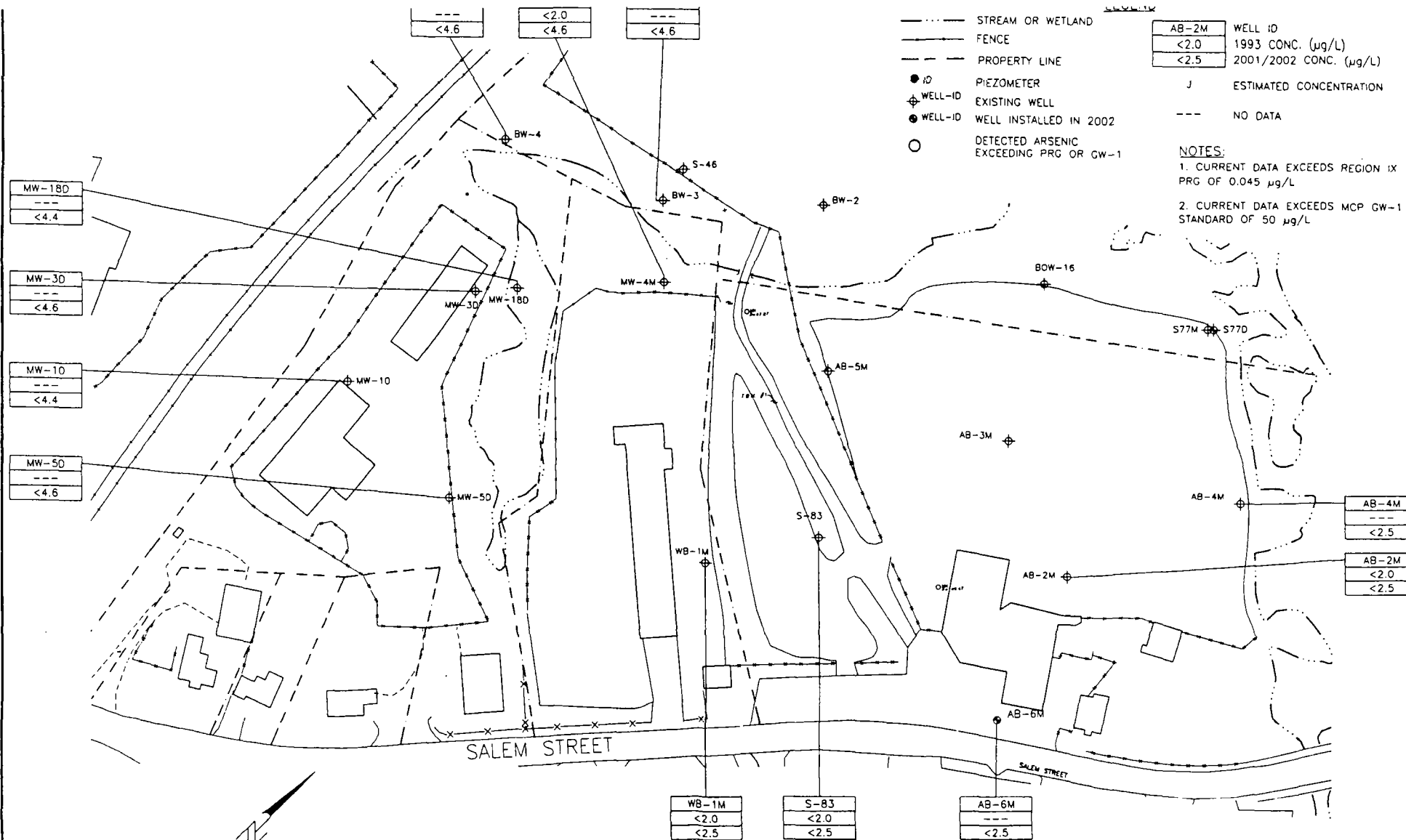
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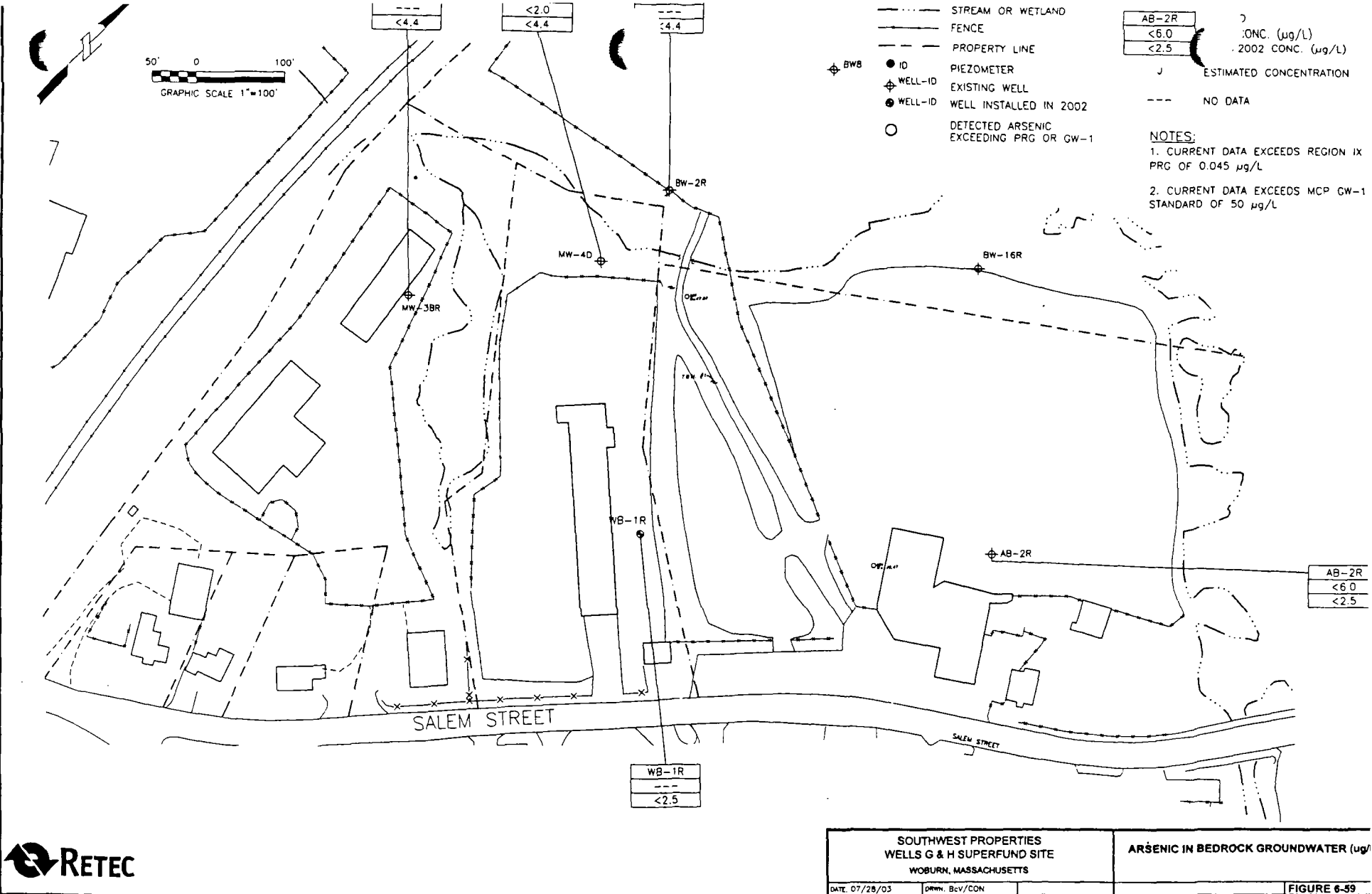


File: F:\PROJECTS\15094\15094-CADD\15094-CON-CW-12.dwg User: B75088-ARSENIC User: B75088-ARSENIC Plotted: Aug 13, 2003 - 2:56pm Xref's:



SOUTHWEST PROPERTIES WELLS G & H SUPERFUND SITE WOBBURN, MASSACHUSETTS		ARSENIC IN INTERMEDIATE/DEEP OVERBURDEN GROUNDWATER (µg/L)	
DATE: 07/28/03	DRAWN: BGV/CON	FIGURE 6-58	

File: F:\PROJECTS\15094\15094-15094-CON-GW-12.dwg Layout: BR-ARSENIC User: BWhelan Plotted: Aug 11, 2003 - 1:00pm Xref's:





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
EPA NEW ENGLAND
1 CONGRESS STREET, SUITE 1100
BOSTON, MA 02114-2023

URGENT LEGAL MATTER -- PROMPT REPLY NECESSARY
CERTIFIED MAIL: RETURN RECEIPT REQUESTED

May 16, 2005

Barry Goldman, Esq.
Acuity Brands
1170 Peachtree Street, NE
Suite 2400
Atlanta GA 30309-7676

Re: Request for Information Pursuant to Section 104 of CERCLA in relation to the Wells G & H Superfund Site

The United States Environmental Protection Agency (EPA) is investigating the release or threatened release of hazardous substances, pollutants or contaminants, or hazardous wastes at the Wells G & H Superfund Site in Woburn, Massachusetts (the "Site"). This investigation includes an inquiry into the identification, nature, source, and quantity of materials transported to the Site and/or generated, treated, stored, or disposed of at the Site. In connection with this investigation, EPA is researching potential sources of contamination in the southwest portion of the Site, including materials used, stored, and disposed of by Aberjona Auto Parts, Inc.

Pursuant to the authority of Section 104(e) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. § 9604(e), you are hereby requested to respond to the Information Request set forth in the Enclosure to this letter.

While EPA seeks your voluntary cooperation in this investigation, compliance with the Information Request is required by law. Failure to provide a complete truthful response to this Information Request **within thirty (30) days** of your receipt of this letter, or to adequately justify such failure to respond, may subject you to an enforcement action by EPA pursuant to Section 104(e) of CERCLA. This provision permits EPA to seek the imposition of penalties of up to thirty-two thousand five hundred dollars (\$32,500) for each day of non-compliance.

Please note that responses which are incomplete, ambiguous, or evasive will be treated as complete non-compliance with this Information Request. Also, be further advised that provision of false, fictitious, or fraudulent statements or representations may subject you to criminal penalties under 18 U.S.C. § 1001.

This Information Request is not subject to the approval requirements of the Paperwork Reduction

WELLS G & H
ENCLOSURE A - INFORMATION REQUEST QUESTIONS

*
* Period Being Investigated: 1954 to 1986 *
*

In addition to the questions which follow in this enclosure (Enclosure A), this letter includes detailed Instructions for responding to this request (Enclosure B), Definitions of words such as "Respondent," "identify," and "waste" used in the questions (Enclosure C), a Site Description (Enclosure D), Map (Enclosure E) and a Declaration (Enclosure F). These enclosures appear at the end of the questions; please refer to them in answering all questions. Of particular importance:

- Answer each question with respect to the period being investigated (noted above) unless the question indicates otherwise.
- Answer all questions completely in accordance with the definitions and instructions.
- For each question, identify all persons and documents consulted in the preparation of the answer and provide copies of all those documents.
- All information provided for which you are making a claim of business confidentiality should be contained on separate sheets and clearly marked as CONFIDENTIAL.
- All personal information, the release of which would constitute an unwarranted invasion of privacy, should be contained on separate sheets and clearly marked as PRIVACY MATERIAL.
- This request imposes a continuing obligation upon you to submit responsive information discovered after your original response is submitted to EPA.
- Complete the enclosed declaration (Enclosure F).

WELLS G & H SUPERFUND SITE QUESTIONS

General Information About Respondent

1. Provide the full legal name and mailing address of the Respondent.
2. For each person answering these questions on behalf of Respondent, provide:
 - i. full name;
 - ii. title;
 - iii. business address; and
 - iv. business telephone number.
3. If Respondent wishes to designate an individual for all future correspondence concerning this Site, including any legal notices, please so indicate here by providing that individual's name, address, and telephone number.

Information Regarding ZEP D-Grease

1. Identify all Material Safety Data Sheets ("MSDS") forms that were generated by Acuity Brands or its predecessor, or which Acuity Brands is otherwise aware exists, for the product ZEP D-Grease during the Period Being Investigated.
2. Provide copies of all of the above-referenced MSDSs.
3. Describe the purpose and ordinary usage of ZEP D-Grease, including the recommended means of disposal of the used product.
4. Provide copies of any advertisements, product descriptions, or other information regarding the marketing of ZEP D-Grease.

WELLS G & H

ENCLOSURE B - INSTRUCTIONS

1. Answer Every Question Completely. You are required to provide a separate answer to each and every question and subpart of a question set forth in this Information Request. Incomplete, evasive, or ambiguous answers shall constitute failure to respond to this Information Request and may subject you to the penalties set out in the cover letter.
2. Number Each Answer. Number each answer with the number of the question to which it corresponds.
3. Provide Information about the Period Being Investigated. You are required to answer each question with respect to the period being investigated. If the response fails to address the period being investigated, EPA will consider this a failure to comply with the request and may take action against you for this noncompliance.
4. Provide the Best Information Available. You must provide responses to the best of Respondent's ability, even if the information sought was never put down in writing or if the written documents are no longer available. You should seek out responsive information from current and former employees/agents. Submission of cursory responses when other responsive information is available to the Respondent will be considered non-compliance with this Information Request.
5. Identify Sources of Answer. For each question, identify (see Definitions) all the persons and documents that you relied on in the preparation of your answer.
6. All Documents Must be Labeled. For each document submitted in response to this Information Request, indicate on the document (or in some other reasonable manner) the number of the question to which it responds.
7. Continuing Obligation to Provide/Correct Information. If additional information or documents responsive to this Request become known or available to you after you respond to this Request, EPA hereby requests pursuant to CERCLA Section 104(e) that you supplement your response to EPA. Failure to supplement your response within 30 days of discovering such responsive information may subject you to \$27,500 per day penalties. If at any time after the submission of this response, you discover or believe that any portion of the submitted information is false or misrepresents the truth, you must notify EPA of this fact as soon as possible and provide EPA with a corrected response. If any part of the response to this Information Request is found to be false, the signatory to the response and the company may be subject to criminal prosecution.
8. Complete the Enclosed Declaration. You are required to complete the enclosed declaration which certifies that the information you are providing in response to this Information Request is true, accurate, and complete.

9. Confidential Information. The information requested herein must be provided even though you may contend that it includes confidential information or trade secrets. You may assert a confidentiality claim covering part or all of the information requested, pursuant to Sections 104(e)(7)(E) and (F) of CERCLA, 42 U.S.C. §§ 9604(e)(7)(E) and (F), and 40 C.F.R. § 2.203(b). All information claimed to be confidential should be contained on separate sheet(s) and should be clearly identified as "trade secret" or "proprietary" or "company confidential." In addition, please note that you bear the burden of substantiating your confidentiality claim. Your claim of confidentiality should be supported by the submission of information supporting such a claim; the type of information to be submitted is set out in 40 C.F.R. Part 2. Information covered by a claim of confidentiality will be disclosed by EPA only to the extent, and only by means of the procedures, provided in 40 C.F.R. §§ 2.201-2.311. **If no such claim accompanies the information when it is received by EPA, it may be made available to the public by EPA without further notice to you.** You should read the above cited regulations carefully before asserting a business confidentiality claim, since certain categories of information are not properly the subject of such a claim.

10. Objections to Questions. While the Respondent may indicate that it objects to certain questions in this Information Request, it must provide responsive information notwithstanding those objections. To object without providing responsive information may subject Respondent to the penalties set out in the cover letter.

11. Personal Privacy Information. Personnel and medical files, and similar files the disclosure of which to the general public may constitute an invasion of privacy should be segregated from your responses, included on separate sheet(s), and marked as "Personal Privacy Information." You should note however, that unless prohibited by law, EPA may disclose this information to the general public without further notice to you.

12. Claims of Privilege.

(a) If you claim any document responsive to this Information Request is a communication for which you assert a privilege exists for the entire document, identify (see Definitions) the document and provide the basis for asserting the privilege.

(b) If you claim any document responsive to this Information Request is a communication for which you assert a privilege exists for a portion of the document, identify the portion of the document for which you are asserting the privilege, and provide the basis for the assertion.

Please note that regardless of the assertion of any privilege, any facts contained in the document which are responsive to the Information Request must be disclosed in your response.

13. Disclosure to EPA Contractor. Information which you submit in response to this Information Request will be disclosed by EPA to authorized representatives of the United States, pursuant to 40 C.F.R. 2.310(h), even if you assert that all or part of it is confidential business information. Please be advised that EPA intends to disclose all responses to this Information Request to one or more of its private contractors, listed below, for the purpose of organizing

and/or analyzing the information contained in the responses to this Information Request. If you are submitting information which you assert is entitled to treatment as confidential business information, you may comment on this intended disclosure within fourteen (14) days of receiving this Information Request.

14. The term "Material Safety Data Sheet" shall mean the compilation of information required under the Occupational Safety and Health Act Communication Standard regarding the identity of hazardous chemicals, health and physical hazards, exposure limits and precautions.

and/or analyzing the information contained in the responses to this Information Request. If you are submitting information which you assert is entitled to treatment as confidential business information, you may comment on this intended disclosure within fourteen (14) days of receiving this Information Request.

14. The term "Material Safety Data Sheet" shall mean the compilation of information required under the Occupational Safety and Health Act Communication Standard regarding the identity of hazardous chemicals, health and physical hazards, exposure limits and precautions.

WELLS G & H

ENCLOSURE C - DEFINITIONS

All terms not defined herein shall have their ordinary meaning, unless such terms are defined in CERCLA, 42 U.S.C. Section 9601 et seq., RCRA, 42 U.S.C. Section 6901 et seq., or Volume 40 of the Code of Federal Regulations (CFR), in which case such statutory or regulatory definitions shall apply.

The following definitions shall apply to the following words as they appear in this Enclosure:

1. The term "you" or "Respondent" shall mean the addressee of this Request, the addressee's officers, managers, employees, contractors, trustees, successors, assigns, and agents, and any predecessor, parent or successor corporations or companies.
2. The terms "document" and "documents" shall mean any method of recording, storing, or transmitting information. "Document" shall include but not be limited to:
 - (a) writings of any kind, formal or informal, whether or not wholly or partially in handwriting, including (by way of illustration and not by way of limitation) any of the following:
 - (1) invoice, receipt, endorsement, check, bank draft, cancelled check, deposit slip, withdrawal slip, order;
 - (2) letter, correspondence, fax, telegram, telex;
 - (3) minutes, memorandum of meetings and telephone and other conversations, telephone messages;
 - (4) agreement, contract, and the like;
 - (5) log book, diary, calendar, desk pad, journal;
 - (6) bulletin, circular, form, pamphlet, statement;
 - (7) report, notice, analysis, notebook;
 - (8) graph or chart; or
 - (9) copy of any document.
 - (b) microfilm or other film record, photograph, or sound recording on any type of device;
 - (c) any tape, disc, or other type of memory generally associated with computers and data processing, together with:
 - (1) the programming instructions and other written material necessary to use such punch card, disc, or disc pack, tape or other type of memory; and
 - (2) printouts of such punch card, disc, or disc pack, tape or other type of memory; and
 - (d) attachments to or enclosures with any document as well as any document referred to in any other document.

3. The term "identify" or "provide the identity of" means, with respect to a natural person, to set forth:

- (a) the person's full name,
- (b) present or last known business and home addresses and telephone numbers;
- (c) present or last known employer (include full name and address) with job title, position or business; and
- (d) the person's social security number.

4. The term "identify" or "provide the identity of" means, with respect to a corporation, partnership, business trust, government office or division, or other entity (including a sole proprietorship), to set forth:

- (a) its full name;
- (b) complete street address;
- (c) legal form (e.g. corporation, partnership, etc.);
- (d) the state under whose laws entity was organized; and
- (e) a brief description of its business.

5. The term "identify" or "provide the identity of" means, with respect to a document, to provide:

- (a) its customary business description (e.g., letter, invoice);
- (b) its date;
- (c) its number if any (e.g., invoice or purchase order number);
- (d) the identity of the author, addressor, addressee and/or recipient; and
- (e) a summary of the substance or the subject matter. Alternatively, Respondent may provide a copy of the document.

6. The terms "the period being investigated" and "the relevant time period" shall mean the period being investigated as specified on the first page of the Information Request Questions.

7. The terms "the Site" or "the facility" shall mean and include the property on or about the 330 acres of land in Woburn, Massachusetts currently identified by EPA as the Wells G & H Superfund Site (more fully described in the Enclosure D, entitled Site Description].

8. The term "material" or "materials" shall mean any and all objects, goods, substances, or matter of any kind, including but not limited to wastes.

9. The term "waste" or "wastes" shall mean and include trash, garbage, refuse, by-products, solid waste, hazardous waste, hazardous substances, and pollutants or contaminants, whether solid, liquid, or sludge, including but not limited to containers for temporary or permanent holding of such wastes.

WELLS G & H

ENCLOSURE D - SITE DESCRIPTION

Wells G & H were two municipal wells developed in 1964 and 1967 to supplement the water supply of the City of Woburn. The wells supplied 30 percent of the city's drinking water. The population of the City of Woburn is approximately 36,000 people.

In 1979, city police discovered several 55-gallon drums of industrial waste abandoned on a vacant lot in the vicinity of the Site; these drums subsequently were removed. As a result of this finding, the nearby wells were tested and found to be contaminated. Both of these wells were shut down in 1979. Five separate properties were found to be the contributing sources of contamination to the aquifer that supplied the water to the two municipal wells. The Wells G & H site covers a total area of 330 acres which encompass commercial and industrial parks, recreational and residential areas in East Woburn. The site is bounded by Route 128 to the north, Route 93 to the east, the Boston and Maine Railroad to the west, and Salem Street and Cedar Street to the south. The area surrounding the site is predominantly residential. The Aberjona River flows through the middle of the site. Primary contaminants include volatile organic compounds including trichloroethylene (TCE) and tetrachloroethylene (PCE), polycyclic aromatic hydrocarbons (PAHs) and heavy metals.

A portion of the affected property is located in the Aberjona River Valley in the southwestern corner of the Wells G&H Superfund Site (the Southwest Properties). This portion of the Site included properties previously occupied by Murphy's Waste Oil, Inc., Whitney Barrel, Inc. and Aberjona Auto Parts. The Site is being addressed in three remedial phases: Source control (operable unit 1), cleanup of the central aquifer, including the Southwest Properties (operable unit 2), and cleanup of the Aberjona River (operable unit 3).

The primary identified site contaminants in soils, sediments, and groundwater across the Southwest Properties include the following constituents, broken down by contaminant type. These include:

VOCs, including benzene, petroleum hydrocarbons, methyl tertiary butyl ether, tetrachloroethene, trichloroethene, and vinyl chloride;

Semivolatile organic compounds, including benzo(a)anthracene, and benzo(a)pyrene;

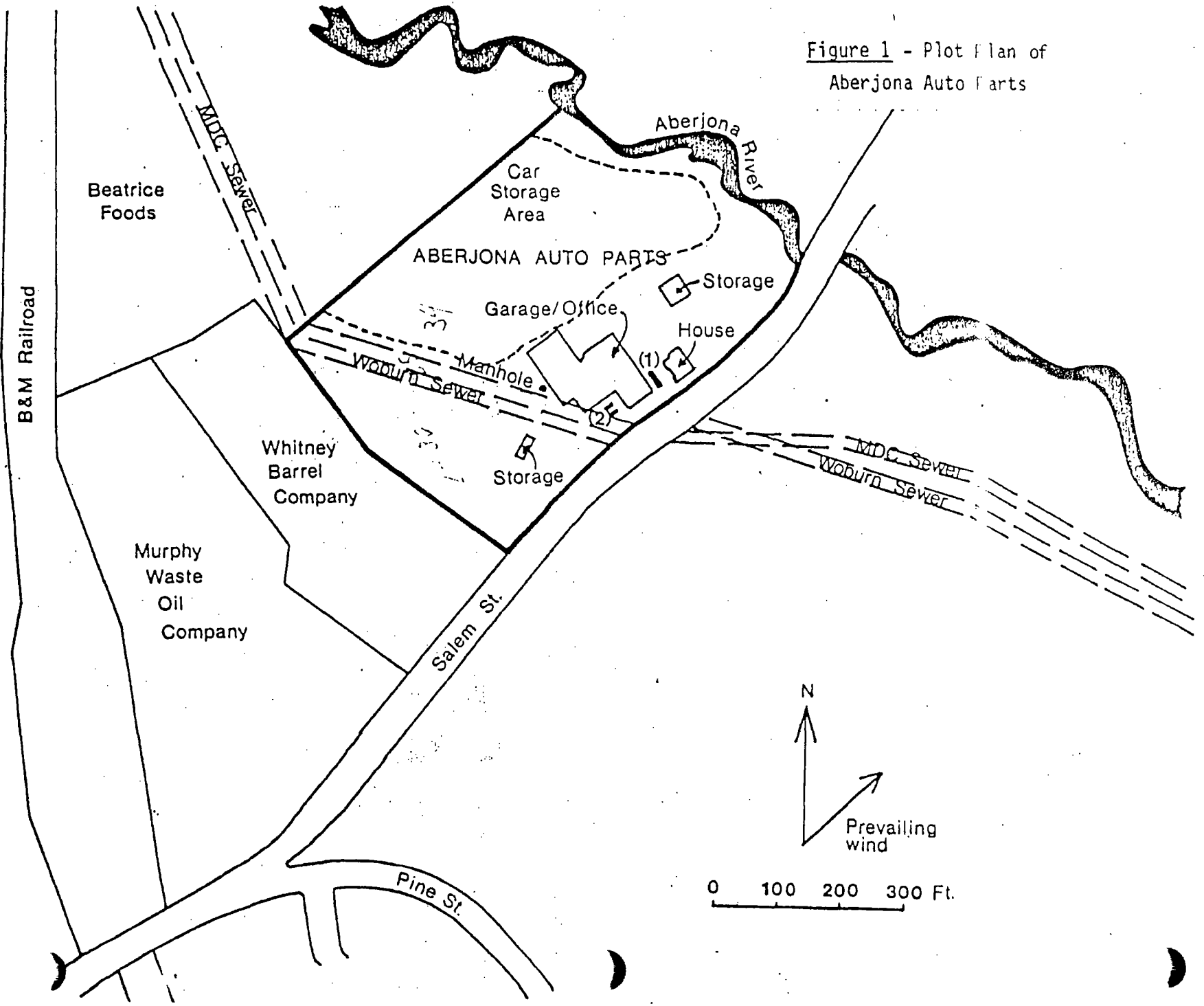
Pesticides, such as alpha-chlordane and gamma chlordane;

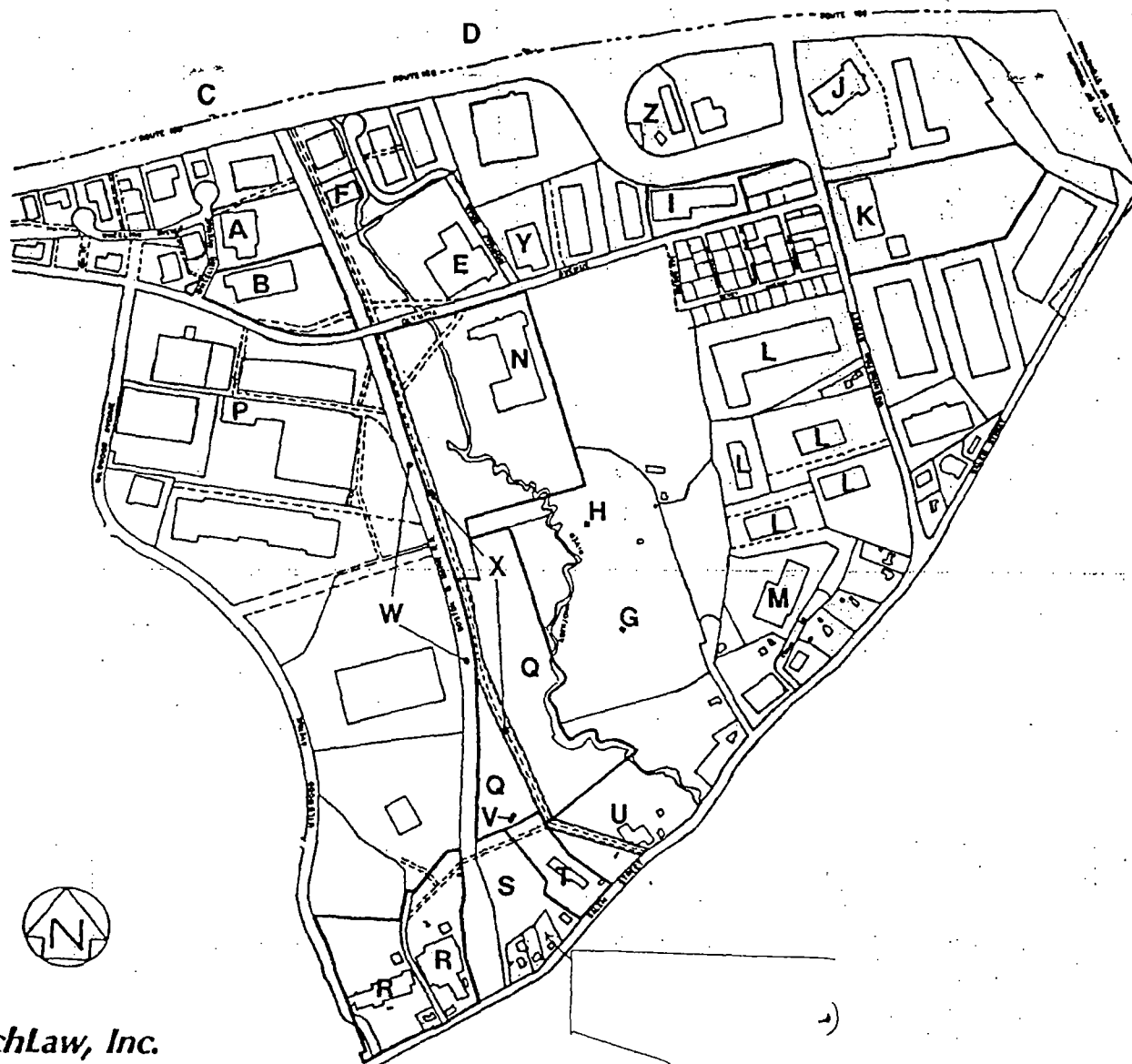
PCB Aroclors, such as 2,3',4,4'5-PentCB(118) and 3,3'4,4'5,-PentaCB(126); and

Metals, including arsenic, cadmium, chromium, and lead.

Additional information regarding the Wells G&H Superfund Site can be found at <http://www.epa.gov/region1/superfund>.

Figure 1 - Plot Plan of
Aberjona Auto Parts





KEY	
SYMBOL:	DESCRIPTION:
A	Major Glass Company
B	Weyerhaeuser Company
C	MBTA Property -Was used as dump
D	Brodie Inc.
E	Northern Research & Eng.
F	Economics Laboratory
G	Municipal Well G
H	Municipal Well H
I	Unifirst Corporation
J	Crest Buick
K	W.R. Grace & Co. Inc.
L	West Cummings Park
M	New England Plastics Corp. Tenant: Prospect Tool & Die
N	Truck Terminal Property Tenants: United Truck Leasing Nunes Bros. Roadway Package Systems North Shore Bus Company
P	S.S. Pierce
Q	Wetlands Property
R	Tannery Property
S	Murphy's Waste Oil Service
T	Whitney Barrel Co.
U	Aberjona Auto Parts
V	Riley Tannery production well
W	B & M Railroad tracks
X	Dirt access road -Includes MDC and Woburn sewer easements.
Y	Siegal Realty Trust
Z	Woburn Foreign Motors

FIG. 1: Wells G & H Study Area,
Woburn, MA

LEGEND

Bold parcel outlines indicate parcels investigated during title search.
Dashed lines indicate easements.



SOURCE: DERIVED FROM TITLE SEARCH FIG. 2

WELLS G & H

ENCLOSURE F - DECLARATION

I declare under penalty of perjury that I am authorized to

respond on behalf of _____ and that the
Respondent

foregoing is complete, true, and correct.

Executed on _____, 2__

Signature

Type Name

Title [if any]

ACUITY BRANDS 104(E) RESPONSE

June 24, 2005

Martha Bosworth, Enforcement Coordinator
U.S. Environmental Protection Agency
Office of Site Remediation and Restoration (HBS)
One Congress Street - Suite 1100
Boston, MA 02114

Attention: Wells G&H Case Team

Re: Section 104(e) Information Request for the Wells G&H Superfund Site

Dear Ms. Bosworth:

I am writing in response to Bruce A Marshall's letter of May 16, 2005, addressed to Barry Goldman of my client, Acuity Brands, Inc., concerning the above-referenced Superfund Site. Mr. Marshall's letter was received on May 19, 2005 and requested a response within 30 days. Mr. Goldman received the letter on May 19, 2005. On June 20, 2005, I requested an extension of this deadline until June 30, 2005 for the company's response. The Agency granted the request, which I confirmed in a letter to you of the same date.

My client's responses to the questions appear below.

General Information about Respondent.

1. Provide the full legal name and mailing address of the Respondent.

The name of the Respondent should be:

Acuity Specialty Products Group, Inc.
4401 Northside Parkway
Suite 700
Atlanta, Georgia 30327

For your information, Acuity Specialty Products Group, Inc. ("ASP") is the company that manufactures ZEP-D-Grease, and ASP is the appropriate entity to respond to the information request.

0097-0020

2. For each person answering these questions on behalf of Respondent, provide:

- i. full name;
- ii. title;
- iii. business address; and
- iv. business telephone number.

ASP has relied upon Dr. Stan Weller to provide the information to respond to EPA's questions. Dr. Weller is ASP's Chief Technical Officer, Research and Development. However, please direct all requests to contact Dr. Weller to Mr. Les Oakes, whose name and address appear below.

3. If Respondent wishes to designate an individual for all future correspondence concerning this Site, including any legal notices, please indicate by providing the individual's name, address and telephone number.

ASP requests that all future correspondence be addressed to

Les Oakes, Esq.
King & Spalding
191 Peachtree Street
Atlanta, Georgia 30303
Phone: (404) 572-3314

Information regarding ZEP D-GREASE.

1. Identify all Material Safety Data Sheets ("MSDS") forms that were generated by Acuity Brands or its predecessor or for which Acuity Brands is otherwise aware exists, for the product ZEP D-Grease during the Period Being Investigated.

According to the instructions appearing as Enclosure A appended to the May 16, 2005 letter, the period being investigated is 1954 to 1986. Copies of all Material Safety Data Sheets in the company's possession that are responsive to question 1 are appended to this response.

2. Provide copies of all of the above-referenced MSDSs.

As noted above, copies of all MSDSs in the company's possession are appended to this response.

3. *Describe the purpose and ordinary usage of ZEP D-Grease, including the recommended means of disposal of the used product.*

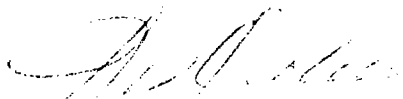
ZEP-D-GREASE is a ready-to-use engine degreaser. The material is heavy duty, self-emulsifying solvent degreaser in convenient ready-to-use form. No dilution is required. The product can be safely used on all common metals, including ferrous metals, aluminum, zinc, copper, brass and magnesium. According to the information on Material Safety Data Sheets, ZEP-D-GREASE may have to be disposed as a hazardous waste. The Material Safety Data Sheets recommended that the user consult local, state and federal agencies for proper disposal requirements.

4. *Provide copies of any advertisements, product descriptions, or other information regarding the marketing of ZEP D-Grease.*

Appended to this response are copies of the relevant advertisements, product descriptions or other information regarding the marketing of ZEP-D-GREASE. ASP notes that ZEP-D-GREASE was sold throughout the United States to automotive supply shops, automobile repair facilities, and automobile and truck dealerships as a lawful product. ASP has no records that indicate that any ZEP-D-GREASE was ever sent for disposal in Woburn, Massachusetts.

On behalf of my client, ASP, I hereby certify that the information contained in this response is true and correct to the best of the belief of the company. ASP reserves the right to continue to review its files for additional documents that may be responsive to EPA's May 16, 2005 request for information pursuant to Section 104(e) of CERCLA. If ASP discovers additional responsive documents, the company will furnish them to the United States Environmental Protection Agency in a timely manner.

Sincerely,



Les Oakes

LO:mc
Enclosures

cc: Barry Goldman, Esq. (w/ encl.)
Dr. Stan Weller (w/o encl.)



012

ZEP-D-GREASE

READY-TO-USE-DEGREASER

A heavy-duty, self-emulsifying solvent degreaser in convenient, ready-to-use form. No dilution required. Can be safely used on all common metals including ferrous metals, aluminum, zinc, copper, brass and magnesium. Will not harm commonly used machinery-type paints when used as directed. Effectively removes a wide variety of greasy, oily and other stubborn soils. Contains a blend of fast acting, grease-cutting solvents together with penetrating agents, synthetic detergents and emulsifiers. Rinses freely with either hard or soft water. Leaves surfaces sparkling clean and free of film or residue.

FOR CLEANING:

AUTOS—TRACTORS—DIESELS: Engines and Parts, Motor Blocks, Carburetors, Pistons, Fuel Pumps, Chassis.

INDUSTRIAL EQUIPMENT: Textile Machinery, Machine Shop Equipment, Tools, and Presses, Oil Field Tools and Equipment, Locomotives.

MARINE EQUIPMENT: Boat Engines, Pumps.

AIRCRAFT EQUIPMENT: Engines, Carburetors, Fuel Pumps, Aluminum Fuselages, Small Instrument Parts.

OIL SOAKED FLOORS: Ship Decks, Textile Mills, Warehouses, Garage and Motor Companies, Filling Stations, Grease Racks.

DIRECTIONS

FOR SPRAY OR BRUSH APPLICATION:

Spray or brush undiluted ZEP-D-GREASE onto surface to be cleaned. Allow to soak for 10 to 15 minutes or until soil is loosened or dissolved. Flush off with a strong stream of water from rinse gun or water hose.

FOR USE IN COLD VAT:

Fill vat with undiluted ZEP-D-GREASE. Immerse parts to be cleaned for 10 to 15 minutes or until soil is loosened or dissolved. Flush parts off with a strong stream of water from rinse gun or water hose.

CAUTION

KEEP OUT OF THE REACH OF CHILDREN
Harmful if swallowed.

Contains aliphatic and aromatic petroleum hydrocarbons. Use with adequate ventilation and avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. In case of contact, flush thoroughly with water.

20

Net Contents _____ Gal.

ZEP MANUFACTURING COMPANY

A DIVISION OF NATIONAL SERVICE INDUSTRIES, INC.

ALBUQUERQUE, N. M. • ATLANTA, GA. • BIRMINGHAM, ALA. • BOSTON, MASS. • CHICAGO, ILL. • CLEVELAND, O.
DALLAS, TEXAS • DETROIT, MICH. • HOUSTON, TEXAS • KANSAS CITY, MO. • LOS ANGELES, CALIF.
MIAMI, FLA. • SANTA CLARA, CALIF. • SEATTLE, WASH. • SPRINGFIELD, N. J. • ST. PAUL, MINN. • WASHINGTON, D. C.

FOREIGN BRANCHES: MEXICO CITY, MEXICO • MONTREAL, P. Q., CANADA



A03-0414

ZEP-D-GREASE

READY-TO-USE-ENGINE-DEGREASER

Rec'd
9-28-72

A heavy-duty, self-emulsifying solvent degreaser in convenient, ready-to-use form. No dilution required. Can be safely used on all common metals including ferrous metals, aluminum, zinc, copper, brass and magnesium.

Effectively removes a wide variety of greasy, oily and other stubborn soils. Contains a blend of fast acting, grease-cutting solvents together with penetrating agents, synthetic detergents and emulsifiers. Rinses freely with either hard or soft water. Leaves surfaces sparkling clean and free of film or residue.

FOR CLEANING:

AUTOS—TRACTORS—DIESELS: Engines and Parts, Motor Blocks, Carburetors, Pistons, Fuel Pumps, Chassis.

INDUSTRIAL EQUIPMENT: Textile Machinery, Machine Shop Equipment, Tools, and Presses, Oil Field Tools and Equipment, Locomotives.

MARINE EQUIPMENT: Boat Engines, Pumps.

AIRCRAFT EQUIPMENT: Engines, Carburetors, Fuel Pumps, Aluminum Fuselages, Small Instrument Parts.

OIL SOAKED FLOORS: Ship Decks, Textile Mills, Warehouses, Garage and Motor Companies, Filling Stations, Grease Racks.

DIRECTIONS

FOR SPRAY OR BRUSH APPLICATION:

Spray or brush undiluted ZEP-D-GREASE onto surface to be cleaned. Allow to soak for 10 to 15 minutes or until soil is loosened or dissolved. Flush off with a strong stream of water from rinse gun or water hose.

FOR USE IN COLD VAT:

Fill vat with undiluted ZEP-D-GREASE. Immerse parts to be cleaned for 10 to 15 minutes or until soil is loosened or dissolved. Flush parts off with a strong stream of water from rinse gun or water hose.

NOTE: Rinse promptly from painted surfaces to prevent damage.

CAUTION

KEEP OUT OF THE REACH OF CHILDREN
Harmful if swallowed.

Contains aliphatic and aromatic petroleum hydrocarbons. Use with adequate ventilation and avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. In case of contact, flush thoroughly with water.

Net Contents.....gallons

ZEP MANUFACTURING COMPANY

A DIVISION OF NATIONAL SERVICE INDUSTRIES, INC.

ALBUQUERQUE, N. M. • ATLANTA, GA. • BIRMINGHAM, ALA. • BOSTON, MASS. • CHICAGO, ILL. • CLEVELAND, O.
DALLAS, TEXAS • DETROIT, MICH. • HOUSTON, TEXAS • KANSAS CITY, MO. • LOS ANGELES, CALIF.
MIAMI, FLA. • SANTA CLARA, CALIF. • SEATTLE, WASH. • SPRINGFIELD, N. J. • ST. PAUL, MINN. • WASHINGTON, D. C.

FOREIGN BRANCHES: MEXICO CITY, MEXICO • MONTREAL, P. Q., CANADA



474

ZEP-D-GREASE

READY-TO-USE-ENGINE DEGREASER

For Industrial and Institutional Use Only.

A03-0414

A heavy-duty, self-emulsifying solvent degreaser in convenient, ready-to-use form. No dilution required. Can be safely used on all common metals including ferrous metals, aluminum, zinc, copper, brass and magnesium.

Effectively removes a wide variety of greasy, oily and other stubborn soils. Contains a blend of fast acting, grease-cutting solvents together with penetrating agents, synthetic detergents and emulsifiers. Rinses freely with either hard or soft water. Leaves surfaces sparkling clean and free of film or residue.

FOR CLEANING:

AUTOS—TRACTORS—DIESELS: Engines and Parts, Motor Blocks, Carburetors, Pistons, Fuel Pumps, Chassis.

INDUSTRIAL EQUIPMENT: Textile Machinery, Machine Shop Equipment, Tools, and Presses, Oil Field Tools and Equipment, Locomotives.

MARINE EQUIPMENT: Boat Engines, Pumps.

AIRCRAFT EQUIPMENT: Engines, Carburetors, Fuel Pumps, Aluminum Fuselages, Small Instrument Parts.

OIL SOAKED FLOORS: Ship Decks, Textile Mills, Warehouses, Garage and Motor Companies, Filling Stations, Grease Racks.

DIRECTIONS

FOR SPRAY OR BRUSH APPLICATION:

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FOR USE IN COLD VAT:

Fill vat with undiluted ZEP-D-GREASE. Immerse parts to be cleaned for 10 to 15 minutes or until soil is loosened or dissolved. Flush parts off with a strong stream of water from rinse gun or water hose.

NOTE: Rinse promptly from painted surfaces to prevent damage.

CAUTION

KEEP OUT OF THE REACH OF CHILDREN

Harmful if swallowed.

Contains aliphatic and aromatic petroleum hydrocarbons. Use with adequate ventilation and avoid prolonged or repeated breathing of vapor. Avoid prolonged or repeated contact with skin. Avoid contact with eyes. In case of contact, flush thoroughly with water.

If swallowed, do not induce vomiting. Consult a physician. Contains aromatic and aliphatic hydrocarbons.

Net Contents _____ Gal.

ZEP MANUFACTURING COMPANY

Division of National Service Industries, Inc.

ATLANTA, GEORGIA 30301

PRINCIPAL CITIES, USA AND THROUGHOUT THE WORLD



1074

ZEP-D-GREASE

READY-TO-USE-ENGINE DEGREASER

For Industrial and Institutional Use Only.

Net Contents ____ Gal.

A heavy-duty, self-emulsifying solvent degreaser in convenient, ready-to-use form. No dilution required. Can be safely used on all common metals including ferrous metals, aluminum, zinc, copper, brass and magnesium.

Effectively removes a wide variety of greasy, oily and other stubborn soils. Contains a blend of fast acting, grease-cutting solvents together with penetrating agents, synthetic detergents and emulsifiers. Rinses freely with either hard or soft water. Leaves surfaces sparkling clean and free of film or residue.

FOR CLEANING:

AUTOS—TRACTORS—DIESELS: Engines and Parts, Motor Blocks, Carburetors, Pistons, Fuel Pumps, Chassis.

INDUSTRIAL EQUIPMENT: Textile Machinery, Machine Shop Equipment, Tools, and Presses, Oil Field Tools and Equipment, Locomotives.

MARINE EQUIPMENT: Boat Engines, Pumps.

AIRCRAFT EQUIPMENT: Engines, Carburetors, Fuel Pumps, Aluminum Fuselages, Small Instrument Parts.

OIL SOAKED FLOORS: Ship Decks, Textile Mills, Warehouses, Garage and Motor Companies, Filling Stations, Grease Racks.

DIRECTIONS

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FOR USE IN COLD VAT:

Fill vat with undiluted ZEP-D-GREASE. Immerse parts to be cleaned for 10 to 15 minutes or until soil is loosened or dissolved. Flush parts off with a strong stream of water from rinse gun or water hose.

NOTE: Rinse promptly from painted surfaces to prevent damage.

CAUTION

KEEP OUT OF THE REACH OF CHILDREN

Harmful if swallowed.

Contains aromatic hydrocarbons. Harmful or fatal if swallowed. Avoid contact with eyes. Avoid prolonged or repeated contact with skin (If irritation develops, wear protective clothing.) and prolonged or repeated breathing of vapors. Use with adequate ventilation. Combustible; do not use near heat or open flame.

If swallowed, do not induce vomiting. Call physician immediately. In case of eye contact, flush with water for 15 minutes. Call physician. In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing. Contact physician if irritation persists.

Undiluted product should not be used on painted or plastic surfaces.

ZEP MANUFACTURING COMPANY

Division of National Service Industries, Inc.

ATLANTA, GEORGIA 30301

PRINCIPAL CITIES, USA AND THROUGHOUT THE WORLD



377

PROD. #0414

ZEP-D-GREASE

READY-TO-USE-ENGINE DEGREASER

For Industrial and Institutional Use Only.

Net Contents _____ Gal.

A heavy-duty, self-emulsifying solvent degreaser in convenient, ready-to-use form. No dilution required. Can be safely used on all common metals including ferrous metals, aluminum, zinc, copper, brass and magnesium.

Effectively removes a wide variety of greasy, oily and other stubborn soils. Contains a blend of fast acting, grease-cutting solvents together with penetrating agents, synthetic detergents and emulsifiers. Rinses freely with either hard or soft water. Leaves surfaces sparkling clean and free of film or residue.

FOR CLEANING:

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INDUSTRIAL EQUIPMENT: Textile Machinery, Machine Shop Equipment, Tools, and Presses, Oil Field Tools and Equipment, Locomotives.

MARINE EQUIPMENT: Boat Engines, Pumps.

AIRCRAFT EQUIPMENT: Engines, Carburetors, Fuel Pumps, Aluminum Fuselages, Small Instrument Parts.

OIL SOAKED FLOORS: Ship Decks, Textile Mills, Warehouses, Garage and Motor Companies, Filling Stations, Grease Racks.

DIRECTIONS

FOR SPRAY OR BRUSH APPLICATION:

Spray or brush undiluted ZEP-D-GREASE onto surface to be cleaned. Allow to soak for 10 to 15 minutes or until soil is loosened or dissolved. Flush off with a strong stream of water from rinse gun or water hose.

For increased effectiveness, preheat engine prior to application of degreaser. **DO NOT** apply with engine running.

FOR USE IN COLD VAT:

Fill vat with undiluted ZEP-D-GREASE. Immerse parts to be cleaned for 10 to 15 minutes or until soil is loosened or dissolved. Flush parts off with a strong stream of water from rinse gun or water hose.

NOTE: Rinse promptly from painted surfaces to prevent damage.

CAUTION

KEEP OUT OF THE REACH OF CHILDREN
Harmful if swallowed.

Contains aromatic hydrocarbons. Harmful or fatal if swallowed. Avoid contact with eyes. Avoid prolonged or repeated contact with skin (If irritation develops, wear protective clothing.) and prolonged or repeated breathing of vapors. Use with adequate ventilation. Combustible; do not use near heat or open flame.

If swallowed, do not induce vomiting. Call physician immediately. In case of eye contact, flush with water for 15 minutes. Call physician. In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing. Contact physician if irritation persists.

Undiluted product should not be used on painted or plastic surfaces.

For Industrial and Institutional Use Only.

Manufactured by

ZEP MANUFACTURING COMPANY

Division of National Service Industries, Inc.

ATLANTA, GEORGIA 30301

PRINCIPAL CITIES, USA AND THROUGHOUT THE WORLD

"This product is designed exclusively for industrial and institutional use by trained, professional maintenance personnel. Label directions and precautions must be followed exactly. Zep Manufacturing Company will not be responsible for any injury, loss, or damage, if product is used in any manner not in compliance with label directions or if precautions are not observed."



SAFE HANDLING

AND

DISPOSAL INFORMATION

(EQUIVALENT TO U.S. DEPT.
OF LABOR OSHA FORM 20.)

PAGE 1 OF 2

DATE: 09/85
SUPERSEDES: 07/85
PRODUCT NO. 0414
ZEP-D-GREASEZEP MANUFACTURING COMPANY
MAINTENANCE AND SANITATION

SECTION I - EMERGENCY CONTACTS

ZEP MANUFACTURING COMPANY
P.O. BOX 2015
ATLANTA, GEORGIA 30301
TELEPHONE (404) 352-1680
BETWEEN 8:00A.M. - 5:00P.M.
(EASTERN TIME ZONE)NON-OFFICE HOURS, WEEKENDS, HOLIDAYS:
(404) 252-1587, (404) 435-2973, (404) 351-2952 (404) 971-3367
LOCAL POISON CONTROL CENTER TELEPHONE.....
TRANSPORTATION EMERGENCY
CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED
DISTRICT OF COLUMBIA (202) 483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS CAS REGISTRY NO. %

SOLVENT NAPHTHA, LIGHT AROMATICS	64742-95-6	70
DIESEL FUEL #2	68476-34-6	25
DIPROPYLENE GLYCOL MONOMETHYL ETHER	132-12-17	< 5

FILE COPY

SECTION III - PHYSICAL DATA

MELTING POINT (F):	310-600F	SPECIFIC GRAVITY:	0.88
VAPOR PRESSURE (MMHG.):	APPROX. 3MM	PERCENT VOLATILE, BY VOLUME (%):	85%
VAPOR DENSITY (AIR=1):	APPROX. 4.1	EVAPORATION RATE (BUTYL ACETATE=1):	0.04
SOLUBILITY IN WATER:	EMULSIFIABLE	PH (CONCENTRATE):	N/A
		PH (USE DILUTION OF): N/A

APPEARANCE & ODOR: CLEAR, THIN, DARK BROWN LIQUID WITH MILD, AROMATIC SOLVENT ODOR.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED):	113F	(TCC)
FLAMMABLE LIMITS:	LEL N/A UEL N/A		
EXTINGUISHING MEDIA:	CO2, DRY CHEMICAL, FOAM		
SPECIAL FIRE FIGHTING:	NONE		
UNUSUAL FIRE HAZARDS:	NONE		

SECTION V - HEALTH HAZARD DATA
SYMPTOMSSKIN: CAN CAUSE IRRITATION UPON PROLONGED CONTACT.
EYES: CAN BE IRRITATING UPON CONTACT.
INHALE: CAN CAUSE DIZZINESS AND NAUSEA UPON PROLONGED EXPOSURE.
INGEST: CAN CAUSE NAUSEA AND VOMITING.

FIRST AID

SKIN: WASH FROM SKIN WITH SOAP AND WATER.
EYES: FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES. CONSULT PHYSICIAN.
INHALE: MOVE TO FRESH AIR. ADMINISTER ARTIFICIAL RESPIRATION, IF NEEDED. SEE DOCTOR
INGEST: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

CONC: APPROXIMATELY 200 PPM

0097-0028



ZEP MANUFACTURING COMPANY
1ST IN MAINTENANCE AND SANITATION

SAFE HANDLING
AND
DISPOSAL INFORMATION
(EQUIVALENT TO U.S. DEPT.
OF LABOR OSHA FORM 20.)

PAGE 2 OF 2

DATE: 09/85
SUPERSEDES: 07/85
PRODUCT NO. 0414
ZEP-D-GREASE

SECTION VI - REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY(AVOID): OXIDIZERS
POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS DECOMPOSITION:
CO₂

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

ABSORB SPILL WITH AN ABSORBENT MATERIAL (i.e. ZEP-D-ZORB); PICK UP AND DEPOSIT IN A SEALABLE CONTAINER FOR DISPOSAL AS A HAZARDOUS WASTE. THOROUGHLY CLEAN AREA WITH A DETERGENT SOLUTION. RINSE AREA THOROUGHLY WITH CLEAN WATER.

WASTE DISPOSAL METHOD

USED OR COLLECTED, SPENT MATERIAL MAY HAVE TO BE ABSORBED ON AN INERT MATERIAL (ZEP-D-ZORB) AND DISPOSED OF AS A HAZARDOUS WASTE. IN MOST STATES, QUANTITIES TOTALING LESS THAN 220 LBS. OF HAZARDOUS MATERIAL PER MONTH CAN BE DISPOSED OF IN A CHEMICAL LANDFILL WITHOUT BEING DECLARED AS A HAZARDOUS WASTE. SINCE REGULATIONS VARY CONCERNING THE DISPOSAL OF THESE CHEMICALS, CONSULT LOCAL, STATE AND FEDERAL AGENCIES FOR PROPER DISPOSAL IN YOUR AREA.

FEDERAL HAZARDOUS WASTE NUMBER(S): D001

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NONE. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR.
VENTILATION: PROVIDE POSITIVE AIR SUPPLY IN CLOSED AREAS.
PERSONAL PROTECTIVE EQUIP.: NEOPRENE GLOVES.
EYES - WEAR GOGGLES IF SPLASHING IS LIKELY.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

AVOID CONTACT WITH SKIN AND EYES. USE WITH ADEQUATE VENTILATION.
DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. COMBUSTIBLE!

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.
AVOID PROLONGED OR REPEATED BREATHING OF VAPORS.



SAFE HANDLING AND DISPOSAL INFORMATION

PAGE 1 OF 2

MANUFACTURING COMPANY
MAINTENANCE AND SANITATION

(EQUIVALENT TO U.S. DEPT.
OF LABOR OSHA FORM 20.)

DATE: 07/85
SUPERSEDES: 01/84
PRODUCT NO. 0414
ZEP-D-GREASE

SECTION I - EMERGENCY CONTACTS

MANUFACTURING COMPANY
P.O. BOX 2015
ATLANTA, GEORGIA 30301
TELEPHONE (404) 352-1680
(BETWEEN 8:00A.M. - 5:00P.M.
EASTERN TIME ZONE)

NON-OFFICE HOURS, WEEKENDS, HOLIDAYS:
(404) 252-1587, (404) 435-2973, (404) 351-2952 (404) 971-3367
LOCAL POISON CONTROL CENTER TELEPHONE.....
TRANSPORTATION EMERGENCY
CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED
DISTRICT OF COLUMBIA (202) 483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

CAS REGISTRY NO. %

SOLVENT NAPHTHA, LIGHT AROMATICS
DIESEL FUEL #2
DIPROPYLENE GLYCOL MONOMETHYL ETHER

64742-95-6 70
68476-34-6 25
132-12-17 < 5

FILE COPY

SECTION III - PHYSICAL DATA

BOILING POINT(F): 310-600F
VAPOR PRESSURE(MMHG.): APPROX. 3MM
VAPOR DENSITY(AIR=1): APPROX. 4.1
SOLUBILITY IN WATER: EMULSIFIABLE

SPECIFIC GRAVITY: 0.88
PERCENT VOLATILE, BY VOLUME(%): 85%
EVAPORATION RATE(BUTYL ACETATE=1): 0.04
PH(CONCENTRATE): N/A
PH(USE DILUTION OF): N/A

APPEARANCE & ODOR : CLEAR, THIN, DARK BROWN LIQUID WITH MILD, AROMATIC SOLVENT ODOR.

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): 113F
FLAMMABLE LIMITS : LEL N/A UEL N/A
EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM
SPECIAL FIRE FIGHTING: NONE
UNUSUAL FIRE HAZARDS: NONE

(TCC)

SECTION V - HEALTH HAZARD DATA

SYMPTOMS

(SKIN: CAN CAUSE IRRITATION UPON PROLONGED CONTACT.
(YES: CAN BE IRRITATING UPON CONTACT.
(WHALE: CAN CAUSE DIZZINESS AND NAUSEA UPON PROLONGED EXPOSURE.
(INGEST: CAN CAUSE NAUSEA AND VOMITING.

FIRST AID

(SKIN: WASH FROM SKIN WITH SOAP AND WATER.
(YES: FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES. CONSULT PHYSICIAN.
(WHALE: MOVE TO FRESH AIR. ADMINISTER ARTIFICIAL RESPIRATION, IF NEEDED. SEE DOCTOR
(INGEST: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

LEV: APPROXIMATELY 200 PPM

0097-0030



SAFE HANDLING
AND
DISPOSAL INFORMATION

PAGE 2 OF 2

ZEP MANUFACTURING COMPANY
RST IN MAINTENANCE AND SANITATION

(EQUIVALENT TO U.S. DEPT.
OF LABOR OSHA FORM 20.)

DATE: 07/85
SUPERSEDES: 01/84
PRODUCT NO. 0414
ZEP-D-GREASE

SECTION VI - R E A C T I V I T Y D A T A

STABILITY: STABLE
INCOMPATIBILITY(AVOID): OXIDIZERS
POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS DECOMPOSITION:
CO2

SECTION VII - S P I L L O R L E A K P R O C E D U R E S

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

ABSORB SPILL WITH AN ABSORBENT MATERIAL (i.e. ZEP-D-ZORB); PICK UP AND DEPOSIT
IN A SEALABLE CONTAINER FOR DISPOSAL AS A HAZARDOUS WASTE. THOROUGHLY CLEAN
AREA WITH A DETERGENT SOLUTION. RINSE AREA THOROUGHLY WITH CLEAN WATER.

WASTE DISPOSAL METHOD

UNUSED OR COLLECTED, SPENT MATERIAL MAY HAVE TO BE ABSORBED ON AN INERT MATER-
IAL (ZEP-D-ZORB) AND DISPOSED OF AS A HAZARDOUS WASTE. IN MOST STATES, QUANTI-
TIES TOTALING LESS THAN 2,200 LBS. OF HAZARDOUS MATERIAL PER MONTH CAN BE
DISPOSED OF IN A CHEMICAL LANDFILL WITHOUT BEING DECLARED AS A HAZARDOUS WASTE
SINCE REGULATIONS VARY CONCERNING THE DISPOSAL OF THESE CHEMICALS, CONSULT
LOCAL, STATE AND FEDERAL AGENCIES FOR PROPER DISPOSAL IN YOUR AREA.

FEDERAL HAZARDOUS WASTE NUMBER(S): D001

SECTION VIII - S P E C I A L P R O T E C T I O N I N F O R M A T I O N

RESPIRATORY PROTECTION: NONE. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR.
VENTILATION: PROVIDE POSITIVE AIR SUPPLY IN CLOSED AREAS.
PERSONAL PROTECTIVE EQUIP.: NEOPRENE GLOVES.
NONE - WEAR GOGGLES IF SPLASHING IS LIKELY.

SECTION IX - S P E C I A L P R E C A U T I O N S

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

AVOID CONTACT WITH SKIN AND EYES. USE WITH ADEQUATE VENTILATION.
DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. COMBUSTIBLE!

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.
AVOID PROLONGED OR REPEATED BREATHING OF VAPORS.



**SAFE HANDLING
AND
DISPOSAL INFORMATION**

PAGE 1 OF 2

DATE: 01/84
SUPERSEDES: 10/83
PRODUCT NO. 0414
ZEP-D-GREASE

MANUFACTURING COMPANY
FIRST MAINTENANCE AND SANITATION

(EQUIVALENT TO U.S. DEPT.
OF LABOR OSHA FORM 20.)

SECTION I - EMERGENCY CONTACTS

ZEP MANUFACTURING COMPANY
P.O. BOX 2015
ATLANTA, GEORGIA 30301
TELEPHONE (404) 352-1680
BETWEEN 8:00A.M. - 5:00P.M.
(EASTERN TIME ZONE)

NON-OFFICE HOURS, WEEKENDS, HOLIDAYS:
(404) 252-1587, (404) 435-2973, (404) 351-2952 (404) 971-336
LOCAL POISON CONTROL CENTER TELEPHONE.....
TRANSPORTATION EMERGENCY
CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED
DISTRICT OF COLUMBIA (202) 483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS	CAS REGISTRY NO.	%
1 AROMATIC AND ALIPHATIC NAPHTHA BLEND	UNKNOWN	80-9
2 DIPROPYLENE GLYCOL MONOMETHYL ETHER	1321217	< 5

FILE COPY

SECTION III - PHYSICAL DATA

BOILING POINT(F): 310-600F	SPECIFIC GRAVITY:	0.88
VAPOR PRESSURE(MMHG.): APPROX. 3MM	PERCENT VOLATILE, BY VOLUME(%):	85%
VAPOR DENSITY(AIR=1): APPROX. 4.1	EVAPORATION RATE(BUTYL ACETATE=1):	0.04
SOLUBILITY IN WATER: EMULSIFIABLE	PH(CONCENTRATE):	N/A
	PH(USE DILUTION OF): N/A	
APPEARANCE & ODOR : CLEAR, THIN, DARK BROWN LIQUID WITH MILD, AROMATIC SOLVENT ODOR.		

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): 113F (TCC)
FLAMMABLE LIMITS : LEL N/A UEL N/A
EXTINGUISHING MEDIA: CO2, DRY CHEMICAL, FOAM
SPECIAL FIRE FIGHTING: NONE
UNUSUAL FIRE HAZARDS: NONE

SECTION V - HEALTH HAZARD DATA
SYMPTOMS

SKIN: CAN CAUSE IRRITATION UPON PROLONGED CONTACT.
EYES: CAN BE IRRITATING UPON CONTACT.
INHALE: CAN CAUSE DIZZINESS AND NAUSEA UPON PROLONGED EXPOSURE.
INGEST: CAN CAUSE NAUSEA AND VOMITING.

FIRST AID

WASH FROM SKIN WITH SOAP AND WATER.
EYES: FLUSH IMMEDIATELY WITH PLENTY OF WATER FOR 15 MINUTES. CONSULT PHYSICIAN.
INHALE: MOVE TO FRESH AIR. ADMINISTER ARTIFICIAL RESPIRATION, IF NEEDED. SEE DOCTOR.
INGEST: DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IMMEDIATELY.

TLV: APPROXIMATELY 200 PPM

0097-0032



SAFE HANDLING
AND
DISPOSAL INFORMATION

PAGE 2 OF 2

ZEP MANUFACTURING COMPANY
1ST IN MAINTENANCE AND SANITATION

(EQUIVALENT TO U.S. DEPT.
OF LABOR OSHA FORM 20.)

DATE: 01/84
SUPERSEDES: 10/83
PRODUCT NO. 0414
ZEP-D-GREASE

SECTION VI - R E A C T I V I T Y D A T A

STABILITY: STABLE
INCOMPATIBILITY(AVOID): OXIDIZERS
POLYMERIZATION: WILL NOT OCCUR
HAZARDOUS DECOMPOSITION:
CO2

SECTION VII - S P I L L O R L E A K P R O C E D U R E S

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

ABSORB SPILL WITH AN ABSORBENT MATERIAL (i.e. ZEP-D-ZORB); PICK UP AND DEPOSIT IN A SEALABLE CONTAINER FOR DISPOSAL AS A HAZARDOUS WASTE. THOROUGHLY CLEAN AREA WITH A DETERGENT SOLUTION. RINSE AREA THOROUGHLY WITH CLEAN WATER.

WASTE DISPOSAL METHOD

UNUSED OR COLLECTED, SPENT MATERIAL MAY HAVE TO BE ABSORBED ON AN INERT MATERIAL (ZEP-D-ZORB) AND DISPOSED OF AS A HAZARDOUS WASTE. IN MOST STATES, QUANTITIES TOTALING LESS THAN 2,200 LBS. OF HAZARDOUS MATERIAL PER MONTH CAN BE DISPOSED OF IN A CHEMICAL LANDFILL WITHOUT BEING DECLARED AS A HAZARDOUS WASTE SINCE REGULATIONS VARY CONCERNING THE DISPOSAL OF THESE CHEMICALS, CONSULT LOCAL, STATE AND FEDERAL AGENCIES FOR PROPER DISPOSAL IN YOUR AREA.

FEDERAL HAZARDOUS WASTE NUMBER(S): D001

SECTION VIII - S P E C I A L P R O T E C T I O N I N F O R M A T I O N

RESPIRATORY PROTECTION: NONE. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR.
VENTILATION: PROVIDE POSITIVE AIR SUPPLY IN CLOSED AREAS.
PERSONAL PROTECTIVE EQUIP.: NEOPRENE GLOVES.
NONE - WEAR GOGGLES IF SPLASHING IS LIKELY.

SECTION IX - S P E C I A L P R E C A U T I O N S

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

AVOID CONTACT WITH SKIN AND EYES. USE WITH ADEQUATE VENTILATION.
DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. COMBUSTIBLE!

OTHER PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.
AVOID PROLONGED OR REPEATED BREATHING OF VAPORS.

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME ZEP MANUFACTURING COMPANY		EMERGENCY TELEPHONE NO. (404) 352-1680
ADDRESS (Number, Street, City, State, and ZIP Code) P. O. Box 2015, Atlanta, Georgia 30301		
CHEMICAL NAME AND SYNONYMS n.a.	TRADE NAME AND SYNONYMS ZEP-D-GREASE	
CHEMICAL FAMILY n.a.	FORMULA READY-TO-USE MOTOR DEGREASER	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS Aromatic Hydro-	82	200ppm	FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES carbon (low volatility)			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	approx. 310-600°F.	SPECIFIC GRAVITY (H ₂ O=1)	0.88
VAPOR PRESSURE (mm Hg.)	approx. 3mm	PERCENT, VOLATILE BY VOLUME (%)	approx. 85%
VAPOR DENSITY (AIR=1)	approx. 4.1	EVAPORATION RATE (n-Butyl = 1)	approx. 0.04
SOLUBILITY IN WATER	Emulsifiable acetate		
APPEARANCE AND ODOR	A clear, thin, dark brown colored liquid having a mild aromatic solvent odor.		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) 113°F. (TCC)	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA CO₂, Dry Chemical, Foam	Approx.	1%	8%
SPECIAL FIRE FIGHTING PROCEDURES None			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

n.a.

EFFECTS OF OVEREXPOSURE

Can cause irritation to skin and eyes. Vapors can cause nausea, dizziness and drowsiness.

EMERGENCY AND FIRST AID PROCEDURES

For skin, wash off with water.

For eyes, flush thoroughly with water. Contact a physician.

For inhalation, move to fresh air and consult physician.

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

X

INCOMPATIBILITY (Materials to avoid)

HAZARDOUS DECOMPOSITION PRODUCTS

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Provide adequate ventilation & avoid prolonged breathing of vapor.

Eliminate all sources of ignition. Either 1) soak product up in absorbent material & incinerate or, 2) flush to sewer system with plenty of water.

WASTE DISPOSAL METHOD

Either, 1) Incinerate or, 2) flush to sewer system with plenty of water. Consult local, state and federal requirements.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

NONE-Provide adequate ventilation & avoid prolonged or repeated breathing of vapor.

VENTILATION

LOCAL EXHAUST

SPECIAL

Positive air supply in closed areas.

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

Neoprene rubber gloves.

EYE PROTECTION

NONE-Avoid contact - wear goggles if splashing is likely.

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

KEEP OUT OF REACH OF CHILDREN. Avoid contact with skin and eyes. Use with adequate ventilation and avoid prolonged or repeated breathing

OTHER PRECAUTIONS

of vapor. Do not use or store near heat or open flame. Combustible.



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

PAGE 1 OF 3

DATE : 04/23/86 ZEP-D-GREASE
SUPERSEDES: 03/28/86 PRODUCT NUMBER: 0414

MANUFACTURING COMPANY
T IN MAINTENANCE AND SANITATION

SECTION I - EMERGENCY CONTACTS

MANUFACTURING COMPANY NON-OFFICE HOURS, WEEKENDS, AND HOLIDAYS: AREA CODE 404
O. BOX 2015 435-2973, 996-0899, 252-1587, 351-2952, 971-3367
LANTA, GEORGIA 30301 LOCAL POISON CONTROL CENTER
LEPHONE (404)352-1680 TRANSPORTATION EMERGENCY
ETWEEN 8:00A.M. - 5:00P.M. CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED
ASTERN TIME ZONE) DISTRICT OF COLUMBIA (202)483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

SIGNATIONS

	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PROD.
LIGHT AROMATIC NAPHTHA ** solvent naphtha (petroleum), medium aliphatics; CAS# 64742-88-7 TECS# NONE; OSHA PEL 500ppm	100	IRR CBL	> 90
SULFONIC ACIDS, PETROLEUM, SODIUM SALTS ** propri- ary sodium petroleum sulfonate; CAS# 68608-26-4; TECS# NONE; OIL MIST LIMIT = 5 MG/M3	N/D	IRR	< 5
NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL ** poly(oxy- 2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy; polyethoxylated (3 mole) nonyl phenol; CAS# 9016-45-9; RTECS# MD0900000	N/D	IRR	< 5
NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL ** poly(oxy- 2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy; polyethoxylated (9 mole) nonyl phenol; CAS# 9016-45-9; RTECS# MD0905000	N/D	IRR	< 5

Change
70
60-90
70 - 10-20
MD36
add
2027

SPECIAL NOTE: ADVERSE HEALTH EFFECTS WOULD NOT BE EXPECTED UNDER RECOMMENDED
CONDITIONS OF USE SO LONG AS PRESCRIBED SAFETY PRECAUTIONS ARE PRACTICED.

SECTION III - HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE:
EXPOSURE BY INHALATION MAY PRODUCE EYE, NOSE, AND THROAT IRRITATION. INHALATION
OF HARMFUL AMOUNTS OF VAPOR MAY PRODUCE MILD CENTRAL NERVOUS SYSTEM DEPRESSION,
CHARACTERIZED BY HEADACHE, NAUSEA, VERTIGO, AND STUPOR. INTRODUCTION OF HYDRO-
CARBONS INTO THE LUNGS, AS IN ASPIRATION OF VOMITUS FLUIDS, MAY PRODUCE CHEMICAL
PNEUMONIA.



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

PAGE 2 OF 3

ZEP MANUFACTURING COMPANY
1ST IN MAINTENANCE AND SANITATION

DATE : 04/23/86 ZEP-D-GREASE
SUPERSEDES: 03/28/86 PRODUCT NUMBER: 0414

SECTION III - HEALTH HAZARD DATA (CONTINUED)

CHRONIC EFFECTS OF OVEREXPOSURE:

REPEATED OR PROLONGED, SKIN CONTACT MAY PRODUCE MILD CENTRAL NERVOUS SYSTEM DEPRESSION, CHARACTERIZED BY HEADACHE, NAUSEA, STUPOR, AND COMA. SKIN WHICH IS DEFATTED BY REPEATED EXPOSURE TO HYDROCARBON SOLVENTS IS MORE SUSCEPTIBLE TO IRRITATION, INFECTION, AND DERMITITIS. ANIMAL STUDIES OF THE EFFECTS OF PROLONGED INHALATION INDICATE A POTENTIAL FOR LUNG DAMAGE AND BLOOD PRODUCTION ABNORMALITIES, SOME OF WHICH WERE FATAL. RELEVANCE OF THESE STUDIES TO HUMAN HEALTH AND THE LEVELS OF EXPOSURE WHICH MIGHT PRODUCE THESE RESULTS, HAS NOT BEEN ESTABLISHED.

ONE OF THE HAZARDOUS INGREDIENTS ARE LISTED AS CARCINOGENS BY IARC, NTP, & OSHA

ESTIMATED TLV: 200 PPM

PRIMARY ROUTES OF ENTRY: INH, SKIN.

MIS CODES: HEALTH 1; FLAM. 2; REACT. 0; PERS. PROTECT. B ; CHRONIC HAZ. YES

FIRST AID PROCEDURES:

SKIN : WASH CONTAMINATED SKIN WITH SOAP OR MILD DETERGENT . APPLY SKIN CREAM WITH LANOLIN. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

EYES : IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER LIDS. GET MEDICAL ATTENTION AT ONCE.

INHALE: MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION PROMPTLY.

INGEST: IF SWALLOWED, DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD BELOW HIP LEVEL. GET EMERGENCY MEDICAL ATTENTION IMMEDIATELY.

SECTION IV - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING : WEAR NITRILE GLOVES OR USE GLOVES WITH DEMONSTRATED RESISTANCE TO THE INGREDIENTS IN THIS PRODUCT.

EYE PROTECTION : WEAR TIGHT-FITTING SPLASH-PROOF SAFETY GLASSES ESPECIALLY IF CONTACT LENSES ARE WORN.

RESPIRATORY PROTECTION: IF VENTILATION IS INADEQUATE, WEAR A PROPERLY FITTING MSHA OR OSHA-APPROVED RESPIRATOR.

VENTILATION : VENTILATION SHOULD BE EQUIVALENT TO OUTDOORS. USE EXHAUST FANS AND OPEN WINDOWS IN ENCLOSED SPACES.

SECTION V - PHYSICAL DATA

BOILING POINT (F) : 310-600F SPECIFIC GRAVITY : 0.88

VAPOR PRESSURE(MMHG): APPROX. 3MM PERCENT VOLATILE BY VOLUME (%) : 85

VAPOR DENSITY(AIR=1): APPROX. 4.1 EVAPORATION RATE(BUTYL ACETATE =1): 0.04

SOLUBILITY IN WATER : EMULSIFIABLE PH(CONCENTRATE) : N/A

PH(USE DILUTION OF) : N/A

APPEARANCE AND ODOR : CLEAR, THIN DARK BROWN LIQUID WITH AROMATIC SOLVENT ODOR

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT(F) (METHOD USED): 113F (TCC)

0097-0037

FLAMMABLE LIMITS LEL N/A UEL N/A

EXTINGUISHING MEDIA : CO2, DRY CHEMICAL, FOAM

SPECIAL FIRE FIGHTING: FIRE EXPOSED DRUMS SHOULD BE COOLED WITH STREAM OF WATER.

UNUSUAL FIRE HAZARDS : NONE



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

PAGE 3 OF 3

DATE : 04/23/86 ZEP-D-GREASE
SUPERSEDES: 03/28/86 PRODUCT NUMBER: 0414

MANUFACTURING COMPANY
MAINTENANCE AND SANITATION

SECTION VII - REACTIVITY DATA

STABILITY : STABLE
INCOMPATIBILITY(AVOID) : HEAT, OPEN FLAME, SPARK, AND OXIDIZING AGENTS
POLYMERIZATION : WILL NOT OCCUR
HAZARDOUS DECOMPOSITION: CARBON DIOXIDE, CARBON MONOXIDE, & OXIDES OF SULFUR

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
IMMEDIATELY ELIMINATE ALL FLAME, IGNITION AND HIGH-HEAT SOURCES. ABSORB SPILL
WITH INERT ABSORBENT MATERIAL (eg ZEP-O-ZORB). PICK UP AND PLACE RESIDUE IN A
CLEAN, D.O.T. SPECIFICATION CONTAINER FOR DISPOSAL. WASH AREA THOROUGHLY WITH A
DETERGENT SOLUTION AND RINSE WELL WITH WATER.

WASTE DISPOSAL METHOD:
LIQUIDS CANNOT BE SENT TO LANDFILLS UNLESS SOLIDIFIED. UNUSABLE PRODUCT AND
COLLECTED, SPENT MATERIAL MAY REQUIRE DISPOSAL AS A HAZARDOUS WASTE AT A PERMIT-
TED TREATMENT/STORAGE/DISPOSAL FACILITY. IN MOST STATES HAZARDOUS WASTE IN
TOTAL AMOUNTS OF 220 LBS. OR LESS PER MONTH MAY BE DISPOSED OF IN A CHEMICAL OR
INDUSTRIAL WASTE LANDFILL. CONSULT LOCAL, STATE, AND FEDERAL AGENCIES FOR
PROPER DISPOSAL METHOD IN YOUR AREA.

OTHER HAZ. WASTE NOS.: D001 (SEE ABOVE)

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:
COMBUSTIBLE! STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME, OR ANY SOURCE OF
IGNITION.
KEEP PRODUCT AWAY FROM SKIN AND EYES.
DO NOT BREATHE SPRAY MISTS OR VAPORS.
CLOSE CONTAINER TIGHTLY WHEN NOT IN USE. STORE AWAY FROM SUN AND HEAT.
CLOTHING OR SHOES WHICH BECOME CONTAMINATED WITH SUBSTANCE SHOULD BE REMOVED
PROMPTLY AND NOT REWORN UNTIL THOROUGHLY CLEANED.
POST "NO SMOKING" SIGNS ACCORDING TO LOCAL REGULATIONS FOR COMBUSTIBLE LIQUIDS.
KEEP OUT OF THE REACH OF CHILDREN.

SECTION X - TRANSPORTATION DATA

DOT PROPER SHIPPING NAME
NONE
DOT HAZARD CLASS: N/A
DOT HAZ. NUMBER : N/A DOT LABEL/PLACARD: NONE
DOT CWA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED
DOT CWA 40CFR PART 117 SUBSTANCE(S) IN A SINGLE CONTAINER): NONE



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

PAGE 1 OF 1

ZEP MANUFACTURING COMPANY
FIRST IN MAINTENANCE AND SANITATION

DATE : 03/28/86 ZEP-D-GREASE
SUPERSEDES: 01/23/86 PRODUCT NUMBER: 0414

SECTION I - EMERGENCY CONTACTS

ZEP MANUFACTURING COMPANY NON-OFFICE HOURS, WEEKENDS, AND HOLIDAYS: AREA CODE 404
P.O. BOX 2015 435-2973, 996-0899, 252-1587, 351-2952, 971-3367
ATLANTA, GEORGIA 30301 LOCAL POISON CONTROL CENTER
TELEPHONE (404)352-1680 TRANSPORTATION EMERGENCY
BETWEEN 8:00A.M. - 5:00P.M. CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED
EASTERN TIME ZONE) DISTRICT OF COLUMBIA (202)483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PROD.
* LIGHT AROMATIC NAPHTHA ** solvent naphtha (petroleum), medium aliphatics; CAS# 64742-88-7 TECS# NONE	100	IRR CBL	> 90
* DIPROPYLENE GLYCOL METHYL ETHER ** dipropylene glycol monomethyl ether; CAS# 34590-94-8; RTECS# B1575000	100	IRR	Remove
* SULFONIC ACIDS, PETROLEUM, SODIUM SALTS ** propionic sodium petroleum sulfonate; CAS# 68608-26-4; TECS# NONE; OIL MIST LIMIT = 5 MG/M3	N/D	IRR	< 5
* POLYETHOXYLATED (3 MOLE) NONYL PHENOL ** poly(oxy-2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy; AS# 9016-45-9; RTECS# NONE	N/D	IRR	< 5
* POLYETHOXYLATED (9 MOLE) NONYL PHENOL ** poly(oxy-2-ethanediyl), alpha-(nonylphenyl)-omega hydroxy; AS# 9016-45-9; RTECS# MD0905000	N/D	IRR	< 5

SPECIAL NOTE: ADVERSE HEALTH EFFECTS WOULD NOT BE EXPECTED UNDER RECOMMENDED CONDITIONS OF USE SO LONG AS PRESCRIBED SAFETY PRECAUTIONS ARE PRACTICED.

SECTION III - HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE:

EXPOSURE BY INHALATION MAY PRODUCE EYE, NOSE, AND THROAT IRRITATION. INHALATION OF HARMFUL AMOUNTS OF VAPOR MAY PRODUCE MILD CENTRAL NERVOUS SYSTEM DEPRESSION, CHARACTERIZED BY HEADACHE, NAUSEA, VERTIGO, AND STUPOR. INTRODUCTION OF HYDROCARBON INTO THE LUNGS, AS IN ASPIRATION OF VOMITUS FLUIDS, MAY PRODUCE CHEMICAL PNEUMONIA.



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

PAGE 2 OF 3

MANUFACTURING COMPANY

DATE : 03/28/86 ZEP-D-GREASE

SUPERSEDES: 01/23/86 PRODUCT NUMBER: 0414

MAINTENANCE AND SANITATION

SECTION III - HEALTH HAZARD DATA (CONTINUED)

E07, 90

CHRONIC EFFECTS OF OVEREXPOSURE:

REPEATED OR PROLONGED, SKIN CONTACT MAY PRODUCE MILD CENTRAL NERVOUS SYSTEM DEPRESSION, CHARACTERIZED BY HEADACHE, NAUSEA, STUPOR, AND COMA. SKIN WHICH IS OILY OR GREASY FROM REPEATED EXPOSURE TO HYDROCARBON SOLVENTS IS MORE SUSCEPTIBLE TO IRRITATION, INFECTION, AND DERMATITIS. ANIMAL STUDIES OF THE EFFECTS OF PROLONGED INHALATION INDICATE A POTENTIAL FOR LUNG DAMAGE AND BLOOD PRODUCTION ABNORMALITIES, SOME OF WHICH WERE FATAL. RELEVANCE OF THESE STUDIES TO HUMAN HEALTH AND THE LEVELS OF EXPOSURE WHICH MIGHT PRODUCE THESE RESULTS, HAS NOT BEEN ESTABLISHED.

ESTIMATED TLV: 200 PPM

PRIMARY ROUTES OF ENTRY: INH, SKIN.

HMS Codes?

FIRST AID PROCEDURES:

SKIN : WASH CONTAMINATED SKIN WITH SOAP OR MILD DETERGENT. APPLY SKIN CREAM WITH LANOLIN. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
EYES : IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER LIDS. GET MEDICAL ATTENTION AT ONCE.
INHALATION : MOVE EXPOSED PERSON TO FRESH AIR AT ONCE. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY.
INGESTION : IF PRODUCT IS SWALLOWED, DO NOT INDUCE VOMITING. GET EMERGENCY MEDICAL ATTENTION.

SECTION IV - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING *SP51* WEAR NITRILE OR NEOPRENE GLOVES WHEN USING.

FACE PROTECTION *SP42* GOGGLES OR SAFETY GLASSES ARE STRONGLY RECOMMENDED.

RESPIRATORY PROTECTION: IF VENTILATION IS INADEQUATE, WEAR A PROPERLY FITTING MSHA OR OSHA-APPROVED RESPIRATOR.

VENTILATION : VENTILATION SHOULD BE EQUIVALENT TO OUTDOORS. USE EXHAUST FANS AND OPEN WINDOWS IN ENCLOSED SPACES.

SECTION V - PHYSICAL DATA

BOILING POINT (F) : 310-600F	SPECIFIC GRAVITY : 0.88
VAPOR PRESSURE(MMHG): APPROX. 3MM	PERCENT VOLATILE BY VOLUME (%) : 85
VAPOR DENSITY(AIR=1): APPROX. 4.1	EVAPORATION RATE(BUTYL ACETATE =1): 0.04
SOLUBILITY IN WATER : EMULSIFIABLE	PH(CONCENTRATE) : N/A
	PH(USE DILUTION OF) : N/A
APPEARANCE AND ODOR : CLEAR, THIN DARK BROWN LIQUID WITH AROMATIC SOLVENT ODOR	

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT(F) (METHOD USED): 113F (TCC)

FLAMMABLE LIMITS LEL N/A UEL N/A

EXTINGUISHING MEDIA : CO2, DRY CHEMICAL, FOAM

SPECIAL FIRE FIGHTING: NONE *SFO1*

UNUSUAL FIRE HAZARDS : NONE

0097-0040



MATERIAL SAFETY DATA SHEET

AND SAFE HANDLING AND DISPOSAL INFORMATION

PAGE 3 OF 3

ZEP MANUFACTURING COMPANY
1ST IN MAINTENANCE AND SANITATION

DATE : 03/28/86 ZEP-D-GREASE
SUPERSEDES: 01/23/86 PRODUCT NUMBER: 0414

SECTION VII - REACTIVITY DATA

STABILITY : STABLE
INCOMPATIBILITY(AVOID) : OXIDIZERS IC 11
POLYMERIZATION : WILL NOT OCCUR
HAZARDOUS DECOMPOSITION: CO2 HD 03

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

W.D. 07
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
ABSORB SPILL WITH AN ABSORBENT MATERIAL (e.g. ZEP-O-ZORB); PICK UP AND DEPOSIT IN A SEALABLE, D.O.T. SPECIFICATION, CONTAINER FOR DISPOSAL AS A HAZARDOUS WASTE. THOROUGHLY CLEAN AREA WITH A DETERGENT SOLUTION. RINSE AREA THOROUGHLY WITH CLEAN WATER.

HAZARDOUS WASTE DISPOSAL METHOD:

17
REMOVED OR COLLECTED, SPENT MATERIAL MAY HAVE TO BE ABSORBED ON AN INERT MATERIAL (ZEP-O-ZORB) AND DISPOSED OF AS A HAZARDOUS WASTE. IN MOST STATES, QUANTITIES TOTALING LESS THAN 220 LBS. OF HAZARDOUS MATERIAL PER MONTH CAN BE DISPOSED OF IN A CHEMICAL LANDFILL WITHOUT BEING DECLARED AS A HAZARDOUS WASTE. SINCE REGULATIONS VARY CONCERNING THE DISPOSAL OF THESE CHEMICALS, CONSULT LOCAL, STATE AND FEDERAL AGENCIES FOR PROPER DISPOSAL IN YOUR AREA.

CRA HAZ. WASTE NOS.: D001 (SEE ABOVE)

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING: PC 21
COMBUSTIBLE! STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME, OR ANY SOURCE OF IGNITION.

~~DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. COMBUSTIBLE!~~
POST "NO SMOKING" SIGNS ACCORDING TO LOCAL REGULATIONS FOR COMBUSTIBLE LIQUIDS.
~~KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE OUT OF THE SUN AND AWAY FROM HEAT. ALSO KEEP PRODUCT FROM FREEZING.~~
KEEP PRODUCT AWAY FROM SKIN AND EYES. 04
DO NOT BREATHE SPRAY MISTS OR VAPORS. 05
KEEP OUT OF THE REACH OF CHILDREN. 2
PC 06

PC 31
PC 16

SECTION X - TRANSPORTATION DATA

DOT PROPER SHIPPING NAME None

DOT HAZARD CLASS: N/A

DOT I.D. NUMBER: N/A

DOT LABEL/PLACARD: None

PA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED



SAFE HANDLING AND DISPOSAL INFORMATION

PAGE 1 OF 3

ZEP MANUFACTURING COMPANY
1ST IN MAINTENANCE AND SANITATION

DATE : 11/26/85
SUPERSEDES: 09/01/85

ZEP-D-GREASE
PRODUCT NUMBER: 0414

SECTION I - EMERGENCY CONTACTS

ZEP MANUFACTURING COMPANY NON-OFFICE HOURS, WEEKENDS, AND HOLIDAYS: AREA CODE 404
P.O. BOX 2015 252-1567, 435-2973, 996-0899, 351-2952, 971-3367
ATLANTA, GEORGIA 30301 LOCAL POISON CONTROL CENTER
TELEPHONE (404)352-1680 TRANSPORTATION EMERGENCY
BETWEEN 8:00A.M. - 5:00P.M. CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED
(EASTERN TIME ZONE) DISTRICT OF COLUMBIA (202)483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PROD.
** SOLVENT NAPHTHA (PETROLEUM), MEDIUM ALIPHATICS ** light aromatic naphtha; CAS# 64742-88-7; RTECS# NONE	100	IRR CBL	> 90
** PROPYLENE GLYCOL METHYL ETHER ** dipropylene gly- col monomethyl ether; CAS# 34590-94-8; RTECS# JB1575000	100	IRR	< 5
** SULFONIC ACIDS, PETROLEUM, SODIUM SALTS ** propri- etary sodium petroleum sulfonate; CAS# 68608-26-4; RTECS# NDNE; DIL MIST LIMIT = 5 MG/M3		IRR	< 5
** POLYETHOXYLATED (3 MOLE) NONYL PHENOL ** poly(oxy- 1,2-ethenediyl), alpha-(nonylphenyl)-omega-hydroxy; CAS# 9016-45-9; RTECS# NONE		IRR	< 5
** POLYETHOXYLATED (9 MOLE) NONYL PHENOL ** poly(oxy- 1,2-ethenediyl), alpha-(nonylphenyl)-omega hydroxy; CAS# 9016-45-9; RTECS# MD0905000		IRR	< 5

m034

SECTION III - HEALTH HAZARD DATA

0097-0042

EFFECTS OF ACUTE OVEREXPOSURE:
THE HYDROCARBONS IN THIS PRODUCT ARE FAT SOLVENTS AND ALTER THE FUNCTION OF
NERVES TO PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION WHEN THEY ARE ABSORBED IN
SMALL QUANTITIES. SYMPTOMS OF MILD CNS DEPRESSION INCLUDE STUPOR, DRUNKENNESS,
AGITATION, TREMORS, DIZZINESS, NAUSEA AND HEADACHE. SYMPTOMS OF SEVERE CNS DE-
PRESSION INCLUDE ANAESTHESIA, SIGHING RESPIRATION, CARDIAC DEPRESSION AND UN-
CONSCIOUSNESS. PULMONARY IRRITATION OR PNEUMONIA CAN OCCUR FROM ASPIRATION OF
THIS MATERIAL. DUE TO ITS LOW SURFACE TENSION AND LOW VISCOSITY, AN EXTREMELY
SMALL QUANTITY CAN SPREAD OVER THE ENTIRE LUNG SURFACE. RESPIRATORY DISORDERS
AND LUNG DISEASES MAY BE EXAGGERATED BY INHALATION OF SOLVENT MISTS.



**SAFE HANDLING
AND
DISPOSAL INFORMATION**

PAGE 2 OF 3

ZEP MANUFACTURING COMPANY
1ST IN MAINTENANCE AND SANITATION

DATE : 11/26/85
SUPERSEDES: 09/01/85

ZEP-D-GREASE
PRODUCT NUMBER: 0414

SECTION III - HEALTH HAZARD DATA (CONTINUED)

EFFECTS OF CHRONIC OVEREXPOSURE.

REPEATED OR PROLONGED EXPOSURE TO THIS MATERIAL CAN RESULT IN THE SAME SYMPTOMS AS ACUTE OVEREXPOSURE.

SKIN WHICH IS REPEATEDLY DEFATTED BY CONTACT WITH HYDROCARBON SOLVENTS MAY BE MORE SUSCEPTIBLE TO IRRITATION, INFECTION, AND DERMATITIS.

ESTIMATED TLV: 200 PPM

ESTIMATED LD50(MG/KG): NOT ESTABLISHED

FIRST AID PROCEDURES:

SKIN : WASH CONTAMINATED SKIN WITH SOAP OR MILD DETERGENT . APPLY SKIN CREAM WITH LANOLIN. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

EYES : IMMEDIATELY FLUSH EYES AND LIDS WITH PLENTY OF WATER FOR AT LEAST 15 MIN ALWAYS SEEK MEDICAL ATTENTION.

INHALE: MOVE EXPOSED PERSON TO FRESH AIR AT ONCE. IF BREATHING HAS STOPPED, PERFORM ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY.

INGEST: IF PRODUCT IS SWALLOWED, DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY

SECTION IV - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING : WEAR NITRILE OR NEOPRENE GLOVES WHEN USING.

EYE PROTECTION : WEAR SAFETY GLASSES OR GOGGLES WHEN USING.

RESPIRATORY PROTECTION: IF VENTILATION IS INADEQUATE, WEAR A PROPERLY FITTING NIOSH OR OSHA-APPROVED RESPIRATOR.

VENTILATION : VENTILATION SHOULD BE EQUIVALENT TO OUTDOORS. USE EXHAUST FANS AND OPEN WINDOWS IN ENCLOSED SPACES.

SECTION V - PHYSICAL DATA

BOILING POINT (F)	: 310-600F	SPECIFIC GRAVITY	: 0.88
VAPOR PRESSURE(MMHG):	APPROX 3MM	PERCENT VOLATILE BY VOLUME (%)	: 85
VAPOR DENSITY(AIR=1):	APPROX 4.1	EVAPORATION RATE(BUTYL ACETATE =1):	0.04
SOLUBILITY IN WATER	SMULSIFIABLE	PH(CONCENTRATE)	: N/A
		PH(USE DILUTION OF): N/A
APPEARANCE AND ODOR	: CLEAR, THIN DARK BROWN LIQUID WITH AROMATIC SOLVENT ODOR		

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT(F) (METHOD USED): 113F (TCC)
FLAMMABLE LIMITS LEL N/A UEL N/A
EXTINGUISHING MEDIA : CO2, DRY CHEMICAL, FOAM
SPECIAL FIRE FIGHTING: NONE
UNUSUAL FIRE HAZARDS : NONE

0097-0043



**SAFE HANDLING
AND
DISPOSAL INFORMATION**

PAGE 3 OF 3

ZEP MANUFACTURING COMPANY
1001 EAST 10TH AVENUE
DENVER, CO 80202
1-800-451-7331

DATE : 11/26/85
SUPERSEDES: 09/01/85

ZEP-D-GREASE
PRODUCT NUMBER: 0414

SECTION VII - REACTIVITY DATA

STABILITY : STABLE
INCOMPATIBILITY(AVOID) : OXIDIZERS
POLYMERIZATION : WILL NOT OCCUR
HAZARDOUS DECOMPOSITION: CO2

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
ABSORB SPILL WITH AN ABSORBENT MATERIAL (i.e. ZEP-O-ZORB); PICK UP AND DEPOSIT
IN A SEALABLE CONTAINER FOR DISPOSAL AS A HAZARDOUS WASTE. THOROUGHLY CLEAN
AREA WITH A DETERGENT SOLUTION. RINSE AREA THOROUGHLY WITH CLEAN WATER.

WASTE DISPOSAL METHOD:

UNUSED OR COLLECTED. SPENT MATERIAL MAY HAVE TO BE ABSORBED ON AN INERT MATER-
IAL (ZEP-O-ZORB) AND DISPOSED OF AS A HAZARDOUS WASTE. IN MOST STATES, QUANTI-
TIES TOTALING LESS THAN 220 LBS. OF HAZARDOUS MATERIAL PER MONTH CAN BE
DISPOSED OF IN A CHEMICAL LANDFILL WITHOUT BEING DECLARED AS A HAZARDOUS WASTE.
SINCE REGULATIONS VARY CONCERNING THE DISPOSAL OF THESE CHEMICALS, CONSULT
LOCAL, STATE AND FEDERAL AGENCIES FOR PROPER DISPOSAL IN YOUR AREA.

FEDERAL HAZARDOUS WASTE NUMBER(S): D001

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:
COMBUSTIBLE! STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME, AND ANY SOURCE OF
IGNITION.

DO NOT USE OR STORE NEAR HEAT OR OPEN FLAME. COMBUSTIBLE!
POST "NO SMOKING" SIGNS ACCORDING TO LOCAL REGULATIONS FOR COMBUSTIBLE LIQUIDS.
KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. STORE OUT OF THE SUN AND AWAY
FROM HEAT. ALSO KEEP PRODUCT FROM FREEZING.
KEEP PRODUCT AWAY FROM SKIN AND EYES.
DO NOT BREATHE SPRAY MISTS OR VAPORS
KEEP OUT OF THE REACH OF CHILDREN

SECTION X - TRANSPORTATION DATA

DOT PROPER SHIPPING NAME

DOT HAZARD CLASS:

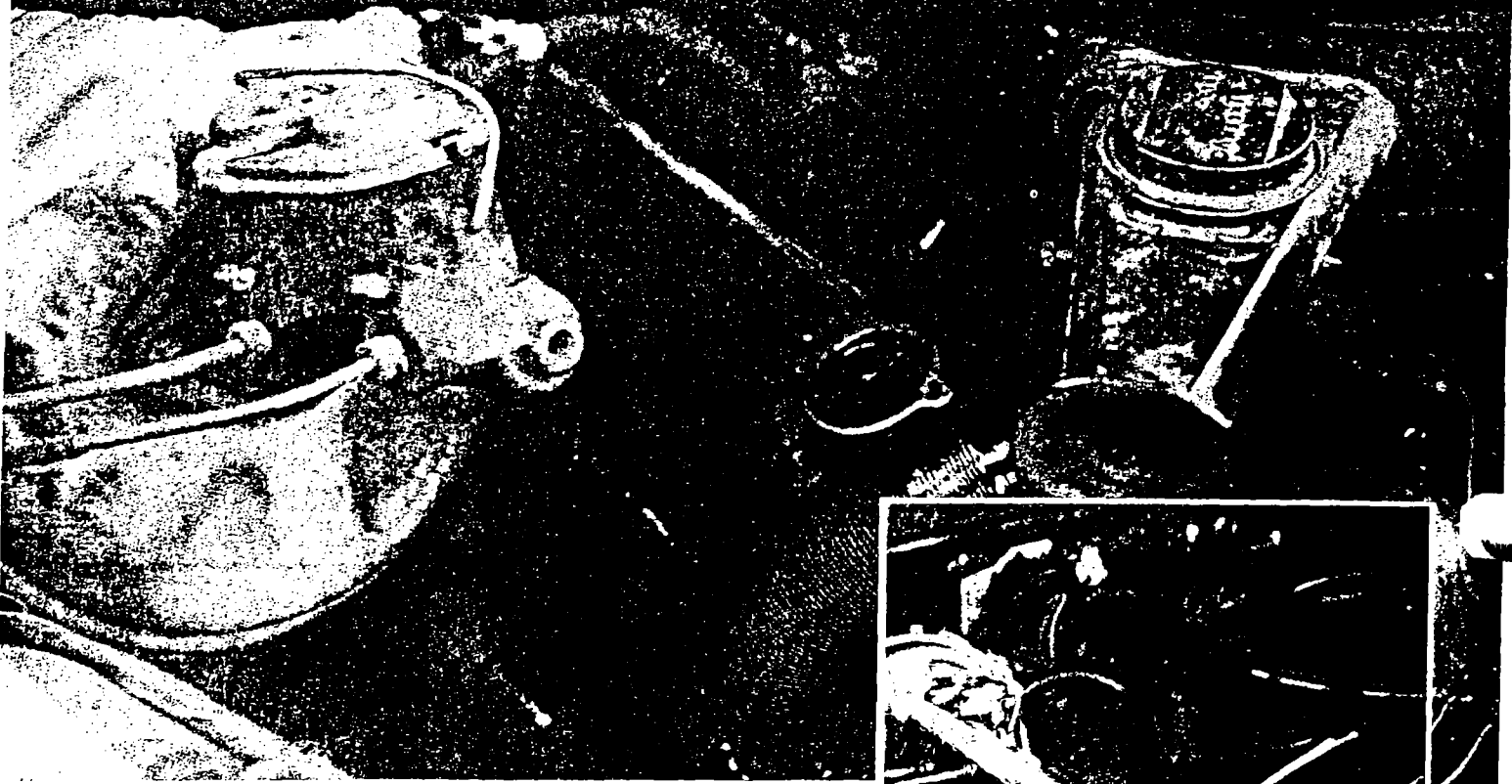
DOT HAZ. NUMBER:

DOT LABEL/PLACARD:

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

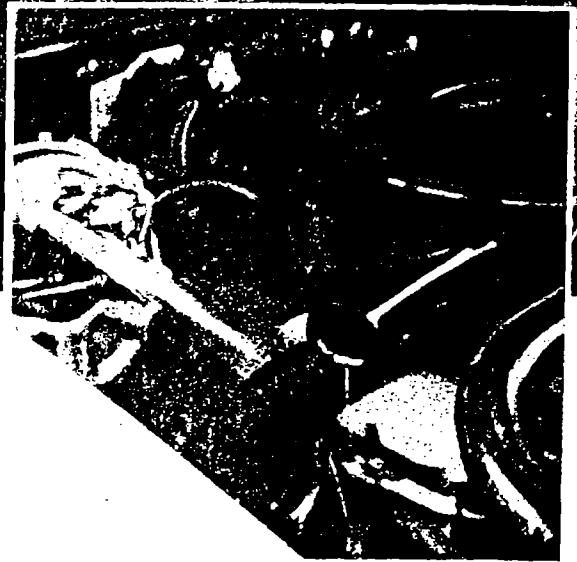
Zep-D-Grease

ENGINE SHAMPOO



**READY TO USE IN ALL SPRAY OR
BRUSH APPLICATIONS.**

**DEGREASES - AUTOS, TRACTORS, DIESELS,
MARINE EQUIPMENT, OIL SOAKED FLOORS,
INDUSTRIAL EQUIPMENT AND AIRCRAFT.**



Save time and labor with Zep-D-Grease Engine Shampoo — This heavy duty self-emulsifying liquid solvent cleaner and degreaser comes ready-to-use and ready to clean. No need for mixing dilution levels.

Light as well as tough degreasing jobs are a snap . . . simply spray



on, let soak and rinse with water. Because D-Grease is based entirely on synthetic detergents and emulsifiers . . . surfaces rinse easily with soft or hard water. Safe on all metals, including ferrous metals, aluminum, zinc, copper, brass and magnesium. Surfaces sparkle without film or residue.



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ZEP-D-GREASE

TECHNICAL LITERATURE

PRODUCT SPECIFICATIONS

Appearance	clear, dark brown, thin liquid
Odor	mild, aromatic solvent
Specific Gravity	0.88
Density	7.34 lbs./gal.
Emulsifier Type	anionic, nonionic blend
Flash Point	113°F TCC
D.O.T. Shipping Label	none
Stability in Storage	1 year minimum

IN LABEL

ZEP-D-GREASE

READY-TO-USE-ENGINE DEGREASER

For Industrial and Institutional Use Only.

A heavy-duty, self-emulsifying solvent degreaser in convenient, ready-to-use form. No dilution required. Can be safely used on all common metals including ferrous metals, aluminum, zinc, copper, brass and magnesium.

Effectively removes a wide variety of greasy, oily and other stubborn soils. Contains a blend of fast acting, grease-cutting solvents together with penetrating agents, synthetic detergents and emulsifiers. Rinses freely with either hard or soft water. Leaves surfaces sparkling clean and free of film or residue.

FOR CLEANING:

- AUTOS—TRACTORS—DIESELS: Engines and Parts, Motor Blocks, Carburetors, Pistons, Fuel Pumps, Chassis.
- INDUSTRIAL EQUIPMENT: Textile Machinery, Machine Shop Equipment, Tools, and Presses, Oil Field Tools and Equipment, Locomotives.
- MARINE EQUIPMENT: Boat Engines, Pumps.
- AIRCRAFT EQUIPMENT: Engines, Carburetors, Fuel Pumps, Aluminum Fuselages, Small Instrument Parts.
- OIL SOAKED FLOORS: Ship Decks, Textile Mills, Warehouses, Garage and Motor Companies, Filling Stations, Grease Racks.

DIRECTIONS

FOR SPRAY OR BRUSH APPLICATION:

Spray or brush undiluted ZEP-D-GREASE onto surface to be cleaned. Allow to soak for 10 to 15 minutes or until soil is loosened or dissolved. Flush off with a strong stream of water from rinse gun or water hose.

For increased effectiveness, preheat engine prior to application of degreaser. DO NOT apply with engine running.

FOR USE IN COLD VAT:

Fill vat with undiluted ZEP-D-GREASE. Immerse parts to be cleaned for 10 to 15 minutes or until soil is loosened or dissolved. Flush parts off with a strong stream of water from rinse gun or water hose.

NOTE: Rinse promptly from painted surfaces to prevent damage.

CAUTION

KEEP OUT OF THE REACH OF CHILDREN
Harmful if swallowed.

Contains aromatic hydrocarbons. Harmful or fatal if swallowed. Avoid contact with eyes. Avoid prolonged or repeated contact with skin (If irritation develops, wear protective clothing.) and prolonged or repeated breathing of vapors. Use with adequate ventilation. Combustible; do not use near heat or open flame.

If swallowed, do not induce vomiting. Call physician immediately. In case of eye contact, flush with water for 15 minutes. Call physician. In case of skin contact, wash thoroughly with soap and water. Remove contaminated clothing. Contact physician if irritation persists.

Undiluted product should not be used on painted or plastic surfaces.

For Industrial and Institutional Use Only.

0097-0046



ZEP-D-GREASE

READY-TO-USE ENGINE DEGREASER

NET CONTENTS/GALS.

CONTROL NO.

A heavy-duty, self-emulsifying solvent degreaser in convenient, ready-to-use form. No dilution required. Can be safely used on all common metals including ferrous metals, aluminum, zinc, copper, brass and magnesium.

Effectively removes a wide variety of greasy, oily, and other stubborn soils. Contains a blend of fast acting, grease-cutting solvents together with penetrating agents, synthetic detergents and emulsifiers. Rinses freely with either hard or soft water. Leaves surfaces sparkling clean and free of film or residue.

FOR CLEANING:

AUTOS — TRACTORS — DIESELS: Engines and Parts, Motor Blocks, Carburetors, Pistons, Fuel Pumps, Chassis.

INDUSTRIAL EQUIPMENT: Textile Machinery, Machine Shop Equipment, Tools, and Presses, Oil Field Tools and Equipment, Locomotives.

MARINE EQUIPMENT: Boat Engines, Pumps.

AIRCRAFT EQUIPMENT: Engines, Carburetors, Fuel Pumps, Aluminum Fuselages, Small Instrument Parts.

OIL SOAKED FLOORS: Ship Decks, Textile Mills, Warehouses, Garage and Motor Companies, Filling Stations, Grease Racks.

DIRECTIONS**FOR SPRAY OR BRUSH APPLICATION:**

Spray or brush undiluted ZEP-D-GREASE onto surface to be cleaned. Allow to soak for 10 to 15 minutes or until soil is loosened or dissolved. Flush off with a strong stream of water from rinse gun or water hose.

For increased effectiveness, preheat engine prior to application of ZEP-D-GREASE. DO NOT apply product with engine running.

FOR USE IN COLD VAT:

Fill vat with undiluted ZEP-D-GREASE. Immerse parts to be cleaned for 10 to 15 minutes or until soil is loosened or liquified. Flush parts off with a strong stream of water from rinse gun or water hose.

NOTE: Rinse promptly from painted surfaces to prevent damage.

FOR INDUSTRIAL AND INSTITUTIONAL USE ONLY

NOT FOR HOUSEHOLD USE OR RESALE

INDUSTRIAL PRODUCTS ARE NEVER MEANT TO BE SWALLOWED

Manufactured by

ZEP MANUFACTURING COMPANY

Division of National Service Industries, Inc.

ATLANTA, GEORGIA 30301

PRINCIPAL CITIES, USA AND THROUGHOUT THE WORLD

WARNING!

Contains light aromatic naphtha, sodium petroleum sulfonate, and nonylphenoxy poly (ethyleneoxy) ethanol.

COMBUSTIBLE**CAUSES EYE IRRITATION**

Can cause severe eye irritation or inflammation. Inhalation of spray mists or vapors may cause respiratory tract irritation. DO NOT breathe vapors or spray mist. Exposure may aggravate existing skin or respiratory disorders. Further information on the effects of overexposure is included on the Material Safety Data Sheet.

Zep advocates the good industrial hygiene practice of limiting exposure to all chemical products as much as is practical. Wearing tight-fitting safety glasses when using this product is strongly recommended, especially when wearing contact lenses. When using this product, ventilation should be equivalent to outdoors. In enclosed spaces, open windows and use exhaust fans. NEVER inhale mists or vapors. Contaminated clothing should be removed promptly and not reworn until thoroughly cleaned. When using or handling this product wear nitrile or neoprene gloves or gloves with a demonstrated resistance to the ingredients in this product. After handling, always wash hands thoroughly with soap or mild detergent and water, especially before eating, smoking, or using toilet facilities.

FIRST AID:

EYES: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.

SKIN: Flush contaminated skin with plenty of water, then wash with soap or mild detergent. Consult a physician if irritation develops.

INHALATION: Move exposed person to fresh air. If irritation persists, get medical attention immediately.

INGESTION: If this product is swallowed, DO NOT induce vomiting. If affected person is conscious give plenty of water to drink. If vomiting occurs keep head below hip level to prevent aspiration (breathing) of liquid into the lungs. Get emergency medical attention at once.

IN CASE OF A LARGE SPILL: Absorb product on an inert absorbent material, such as ZEP-O-ZORB, and deposit in a clean, sealable, D.O.T. specification container for disposal as a hazardous waste. Thoroughly clean area with detergent solution and rinse well with water.

COMBUSTIBLE: Keep away from heat, spark, open flame, or any source of ignition. Store in a cool area away from direct sunlight. Keep container tightly closed at all times when not in use, to decrease evaporation of volatile solvents.

KEEP OUT OF REACH OF CHILDREN

This product is designed exclusively for industrial and institutional use by trained, professional maintenance personnel. Label directions and precautions must be followed exactly. Zep Manufacturing Company will not be responsible for any injury, loss, or damage, if product is used in any manner not in compliance with label directions, or, if precautions are not observed.

State of Delaware
Office of the Secretary of State PAGE 1

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE RESTATED CERTIFICATE OF "ACUITY BRANDS, INC.", FILED IN THIS OFFICE ON THE NINTH DAY OF NOVEMBER, A.D. 2001, AT 10:01 O'CLOCK A.M.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



Harriet Smith Windsor
Harriet Smith Windsor, Secretary of State

3408700 8100

AUTHENTICATION: 1438459

010567799

DATE: 11-09-01

RESTATED CERTIFICATE OF INCORPORATION

OF

ACUTY BRANDS, INC.

Acuity Brands, Inc., a Delaware corporation (the "Corporation"), hereby certifies as follows:

1. The name of the Corporation is Acuity Brands, Inc. The date of filing of its original certificate of incorporation with the Secretary of State was June 27, 2001, under the name of L & C Spinco, Inc.
2. This Restated Certificate of Incorporation amends, restates and integrates the provisions of the Certificate of Incorporation as currently in effect of said Corporation and has been duly adopted in accordance with the provisions of Sections 242 and 245 of the Delaware General Corporation Law by written consent of the holders of all of the outstanding stock entitled to vote thereon in accordance with the provisions of Section 228 of the Delaware General Corporation Law.
3. The text of the Certificate of Incorporation as currently in effect is hereby amended and restated to read as set forth in full herein:

ARTICLE I

The name of the Corporation is Acuity Brands, Inc.

ARTICLE II

The address of the Corporation's registered office in the State of Delaware is 2711 Centerville Road, Suite 400 in the City of Wilmington, County of New Castle, Delaware 19808. The name of its registered agent at such address is Corporation Service Company.

ARTICLE III

The purpose of the Corporation is to engage in any lawful act or activity for which corporations may be organized under the Delaware General Corporation Law.

ARTICLE IV

The total number of shares of all classes of stock which the Corporation shall have authority to issue is 550,000,000, of which 500,000,000 shares of the par value of \$.01 per share shall be a separate class designated as Common Stock and 50,000,000 shares of the par value of \$.01 per share shall be a separate class designated as Preferred Stock.

A. COMMON STOCK

(i) Voting. Except as may be provided in this Certificate of Incorporation or required by law, the Common Stock shall have voting rights in the election of directors and on all other matters presented to stockholders, with each holder of Common Stock being entitled to one vote for each share of Common Stock held of record by such holder on such matters.

(ii) Dividends. Subject to the rights of the holders of any series of Preferred Stock, holders of Common Stock shall be entitled to receive such dividends and distributions (whether payable in cash or otherwise) as may be declared on the Common Stock by the board of directors of the Corporation from time to time out of assets or funds of the Corporation legally available therefor.

(iii) Subdivisions, Combinations and Mergers. In the event of any merger, statutory share exchange, consolidation or similar form of corporate transaction involving the Corporation (whether or not the Corporation is the surviving entity), the holders of Common Stock shall be entitled to receive the same per share consideration, if any.

(iv) Rights on Liquidation. Subject to the rights of the holders of any series of Preferred Stock, in the event of any liquidation, dissolution or winding-up of the Corporation (whether voluntary or involuntary), the assets of the Corporation available for distribution to stockholders shall be distributed in equal amounts per share to the holders of Common Stock.

For purposes of this paragraph, a merger, statutory share exchange, consolidation or similar corporate transaction involving the Corporation (whether or not the Corporation is the surviving entity), or the sale, transfer or lease by the Corporation of all or substantially all its assets, shall not constitute or be deemed a liquidation, dissolution or winding-up of the Corporation.

B. PREFERRED STOCK

Shares of Preferred Stock may be issued in one or more series from time to time as determined by the board of directors of the Corporation, and the board of directors of the Corporation is authorized to fix by resolution or resolutions the designations and the powers, preferences and rights, and the qualifications, limitations and restrictions thereof, of the shares of each series of Preferred Stock, including the following:

(i) the distinctive serial designation of such series which shall distinguish it from other series;

(ii) the number of shares included in such series;

(iii) whether dividends shall be payable to the holders of the shares of such series and, if so, the basis on which such holders shall be entitled to receive dividends (which may include, without limitation, a right to receive such dividends or distributions as may be declared on the shares of such series by the board of directors of the Corporation, a right to receive such dividends or distributions, or any portion or multiple thereof, as may be declared on the Common Stock or any other class of stock or, in addition to or in lieu of any other right to receive dividends, a right to receive dividends at a particular rate or at a rate determined by a particular method, in which case such rate or method of determining such rate may be set forth), the form of such dividend, any conditions on which such dividends shall be payable and the date or dates, if any, on which such dividends shall be payable;

(iv) whether dividends on the shares of such series shall be cumulative and, if so, the date or dates or method of determining the date or dates from which dividends on the shares of such series shall be cumulative;

(v) the amount or amounts, if any, which shall be payable out of the assets of the Corporation to the holders of the shares of such series upon the voluntary or involuntary liquidation, dissolution or winding-up of the Corporation, and the relative rights of priority, if any, of payment of the shares of such series;

(vi) the price or prices (in cash, securities or other property or a combination thereof) at which, the period or periods within which and the terms and conditions upon which the shares of such series may be redeemed, in whole or in part, at the option of the Corporation or at the option of the holder or holders thereof or upon the happening of a specified event or events;

(vii) the obligation, if any, of the Corporation to purchase or redeem shares of such series pursuant to a sinking fund or otherwise and the price or prices (in cash, securities or other property or a combination thereof) at which, the period or periods within which and the terms and conditions upon which the shares of such series shall be redeemed or purchased, in whole or in part, pursuant to such obligation;

(viii) whether or not the shares of such series shall be convertible or exchangeable, at any time or times at the option of the holder or holders thereof or at the option of the Corporation or upon the happening of a specified event or events, into shares of any other class or classes or any other series of the same or any other class or classes of stock of the Corporation or any other securities or property of the Corporation or any other entity, and the price or prices (in cash, securities or other property or a combination thereof) or rate or rates of conversion or exchange and any adjustments applicable thereto; and

(ix) whether or not the holders of the shares of such series shall have voting rights, in addition to the voting rights provided by law, and if so the terms of such voting rights, which may provide, among other things and subject to the other provisions of this Certificate of

Incorporation, that each share of such series shall carry one vote or more or less than one vote per share, that the holders of such series shall be entitled to vote on certain matters as a separate class (which for such purpose may be comprised solely of such series or of such series and one or more other series or classes of stock of the Corporation) and that all the shares of such series entitled to vote on a particular matter shall be deemed to be voted on such matter in the manner that a specified portion of the voting power of the shares of such series or separate class are voted on such matter.

For all purposes, this Certificate of Incorporation shall include each certificate of designations (if any) setting forth the terms of a series of Preferred Stock.

Subject to the rights, if any, of the holders of Preferred Stock, an amendment of this Certificate of Incorporation to increase or decrease the number of authorized shares of Preferred Stock (but not below the number of shares thereof then outstanding) may be adopted by resolution adopted by the board of directors of the Corporation and approved by the affirmative vote of the holders of a majority of the voting power of all outstanding shares of Common Stock of the Corporation and all other outstanding shares of stock of the Corporation entitled to vote thereon, with such outstanding shares of Common Stock and other stock considered for this purpose as a single class, and no vote of the holders of Preferred Stock, voting as a separate class, shall be required therefor.

Except as otherwise required by law or provided in the certificate of designations for the relevant series, holders of Common Stock, as such, shall not be entitled to vote on any amendment of this Certificate of Incorporation that alters or changes the powers, preferences, rights or other terms of one or more outstanding series of Preferred Stock if the holders of such affected series are entitled, either separately or together with the holders of one or more other series of Preferred Stock, to vote thereon as a separate class pursuant to this Certificate of Incorporation or pursuant to the Delaware General Corporation Law as then in effect.

C. PARTICIPATING PREFERRED STOCK

There is hereby established a series of Preferred Stock, \$.01 par value, of the Corporation, and the designation and certain terms, powers, preferences and other rights of the shares of such series, and certain qualifications, limitations and restrictions thereon, are hereby fixed as follows:

(i) The distinctive serial designation of this series shall be "Participating Preferred Stock" (hereinafter called "this Series"). Each share of this Series shall be identical in all respects with the other shares of this Series except as to the dates from and after which dividends thereon shall be cumulative.

(ii) The number of shares in this Series shall initially be 5,000,000, which number may from time to time be increased or decreased (but not below the number then outstanding) by the Board of Directors. Shares of this Series purchased by the Corporation shall be canceled and shall revert to authorized but unissued shares of Preferred Stock undesignated as to series. Shares of this Series may be issued in fractional shares, which fractional shares shall entitle the

holder, in proportion to such holder's fractional share, to all rights of a holder of a whole share of this Series.

(iii) The holders of full or fractional shares of this Series shall be entitled to receive, when and as declared by the Board of Directors, but only out of funds legally available therefor, dividends, (A) on each date that dividends or other distributions (other than dividends or distributions payable in Common Stock of the Corporation) are payable on or in respect of Common Stock comprising part of the Reference Package (as defined below), in an amount per whole share of this Series equal to the aggregate amount of dividends or other distributions (other than dividends or distributions payable in Common Stock of the Corporation) that would be payable on such date to a holder of the Reference Package and (B) on the last day of March, June, September and December in each year, in an amount per whole share of this Series equal to the excess (if any) of \$25.00 over the aggregate dividends paid per whole share of this Series during the three month period ending on such last day. Each such dividend shall be paid to the holders of record of shares of this Series on the date, not exceeding sixty days preceding such dividend or distribution payment date, fixed for the purpose by the Board of Directors in advance of payment of each particular dividend or distribution. Dividends on each full and each fractional share of this Series shall be cumulative from the date such full or fractional share is originally issued; provided that any such full or fractional share originally issued after a dividend record date and on or prior to the dividend payment date to which such record date relates shall not be entitled to receive the dividend payable on such dividend payment date or any amount in respect of the period from such original issuance to such dividend payment date.

The term "Reference Package" shall initially mean 100 shares of Common Stock, par value \$.01 per share ("Common Stock"), of the Corporation. In the event the Corporation shall at any time after the Close of Business on December 1, 2001 (A) declare or pay a dividend on any Common Stock payable in Common Stock, (B) subdivide any Common Stock or (C) combine any Common Stock into a smaller number of shares, then and in each such case the Reference Package after such event shall be the Common Stock that a holder of the Reference Package immediately prior to such event would hold thereafter as a result thereof.

Holders of shares of this Series shall not be entitled to any dividends, whether payable in cash, property or stock, in excess of full cumulative dividends, as herein provided on this Series.

So long as any shares of this Series are outstanding, no dividend (other than a dividend in Common Stock or in any other stock ranking junior to this Series as to dividends and upon liquidation) shall be declared or paid or set aside for payment or other distribution declared or made upon the Common Stock or upon any other stock ranking junior to this Series as to dividends or upon liquidation, unless the full cumulative dividends (including the dividend to be paid upon payment of such dividend or other distribution) on all outstanding shares of this Series shall have been, or shall contemporaneously be, paid. When dividends are not paid in full upon this Series and other stock ranking on a parity as to dividends with this Series, all dividends declared upon shares of this Series and any other stock ranking on a parity as to dividends shall be declared pro rata so that in all cases the amount of dividends declared per share on this Series and such other stock shall bear to each other the same ratio that accumulated dividends per share

on the shares of the Series and such other stock bear to each other. Neither the Common Stock nor any other stock of the Corporation ranking junior to or on a parity with this Series as to dividends or upon liquidation shall be redeemed, purchased or otherwise acquired for any consideration (or any moneys be paid to or made available for a sinking fund for the redemption of any shares of any such stock) by the Corporation (except by conversion into or exchange for stock of the Corporation ranking junior to this Series as to dividends and upon liquidation), unless the full cumulative dividends (including the dividend to be paid upon payment of such dividend, distribution, redemption, purchase or other acquisition) on all outstanding shares of this Series shall have been, or shall contemporaneously be, paid.

(iv) In the event of any merger, consolidation, reclassification or other transaction in which the shares of Common Stock are exchanged for or changed into other stock or securities, cash and/or any other property, then in any such case the shares of this Series shall at the same time be similarly exchanged or changed in an amount per whole share equal to the aggregate amount of stock, securities, cash and/or any other property (payable in kind), as the case may be, that a holder of the Reference Package would be entitled to receive as a result of such transaction.

(v) In the event of any liquidation, dissolution or winding up of the affairs of the Corporation, whether voluntary or involuntary, the holders of full and fractional shares of this Series shall be entitled, before any distribution or payment is made on any date to the holders of the Common Stock or any other stock of the Corporation ranking junior to this Series upon liquidation, to be paid in full an amount per whole share of this Series equal to the greater of (A) \$10,000.00 or (B) the aggregate amount distributed or to be distributed prior to such date in connection with such liquidation, dissolution or winding up to a holder of the Reference Package (such greater amount being hereinafter referred to as the "Liquidation Preference"), together with accrued dividends to such distribution or payment date, whether or not earned or declared. If such payment shall have been made in full to all holders of shares of this Series, the holders of shares of this Series as such shall have no right or claim to any of the remaining assets of the Corporation.

In the event the assets of the Corporation available for distribution to the holders of shares of this Series upon any liquidation, dissolution or winding up of the Corporation, whether voluntary or involuntary, shall be insufficient to pay in full all amounts to which such holders are entitled pursuant to the first paragraph of this Section (v), no such distribution shall be made on account of any shares of any other class or series of Preferred Stock ranking on a parity with the shares of this Series upon such liquidation, dissolution or winding up unless proportionate distributive amounts shall be paid on account of the shares of this Series, ratably in proportion to the full distributable amounts for which holders of all such parity shares are respectively entitled upon such liquidation, dissolution or winding up.

Upon the liquidation, dissolution or winding up of the Corporation, the holders of shares of this Series then outstanding shall be entitled to be paid out of assets of the Corporation available for distribution to its stockholders all amounts to which such holders are entitled pursuant to the first paragraph of this Section (v) before any payment shall be made to the holders

of Common Stock or any other stock of the Corporation ranking junior upon liquidation to this Series.

For the purposes of this Section (v), the consolidation or merger of, or binding share exchange by, the Corporation with any other corporation shall not be deemed to constitute a liquidation, dissolution or winding up of the Corporation.

(vi) The shares of this Series shall not be redeemable.

(vii) In addition to any other vote or consent of stockholders required by law or by the Certificate of Incorporation, as amended, of the Corporation, each whole share of this Series shall, on any matter, vote as a class with any other capital stock comprising part of the Reference Package and voting on such matter and shall have the number of votes thereon that a holder of the Reference Package would have.

ARTICLE V

All corporate powers shall be exercised by the board of directors of the Corporation, except as otherwise specifically required by law or as otherwise provided in this Certificate of Incorporation. Any meeting of stockholders may be postponed by action of the board of directors at any time in advance of such meeting. The board of directors of the Corporation shall have the power to adopt such rules and regulations for the conduct of the meetings and management of the affairs of the Corporation as they may deem proper and the power to adjourn any meeting of stockholders without a vote of the stockholders, which powers may be delegated by the board of directors to the chairman of such meeting either in such rules and regulations or pursuant to the by-laws of the Corporation.

Special meetings of stockholders of the Corporation may be called at any time by, but only by, the board of directors of the Corporation, to be held at such date, time and place either within or without the State of Delaware as may be stated in the notice of the meeting.

The board of directors of the Corporation is authorized to adopt, amend or repeal by-laws of the Corporation. No adoption, amendment or repeal of a by-law by action of stockholders shall be effective unless approved by the affirmative vote of the holders of not less than 80% of the voting power of all outstanding shares of Common Stock of the Corporation and all other outstanding shares of stock of the Corporation entitled to vote on such matter, with such outstanding shares of Common Stock and other stock considered for this purpose as a single class. Any vote of stockholders required by this Article V shall be in addition to any other vote of stockholders that may be required by law, this Certificate of Incorporation, the by-laws of the Corporation, any agreement with a national securities exchange or otherwise.

ARTICLE VI

Elections of directors need not be by written ballot except and to the extent provided in the by-laws of the Corporation.

ARTICLE VII

The directors of the Corporation shall be divided into three classes. The number of directors of the Corporation and the number of directors in each class of directors shall be fixed only by resolution of the board of directors of the Corporation from time to time. The initial term of office of the first such class of directors shall expire at the first annual meeting of stockholders, the initial term of office of the second such class of directors shall expire at the second annual meeting of stockholders and the initial term of office of the third such class of directors shall expire at the third annual meeting of stockholders, with each such class of directors to hold office until their successors have been duly elected and qualified. At each annual meeting of stockholders, directors elected to succeed the directors whose terms expire at such annual meeting shall be elected to hold office for a term expiring at the annual meeting of stockholders in the third year following the year of their election and until their successors have been duly elected and qualified. If the number of directors is changed, any increase or decrease shall be apportioned among the classes in such manner as the board of directors of the Corporation shall determine, but no decrease in the number of directors may shorten the term of any incumbent director.

No director who is part of any such class of directors may be removed except both for cause and with the affirmative vote of the holders of not less than 80% of the voting power of all outstanding shares of stock of the Corporation entitled to vote generally in the election of directors, considered for this purpose as a single class.

Vacancies and newly created directorships resulting from any increase in the authorized number of directors or from any other cause (other than vacancies and newly created directorships which the holders of any class or classes of stock or series thereof are expressly entitled by this Certificate of Incorporation to fill) shall be filled by, and only by, a majority of the directors then in office, although less than a quorum, or by the sole remaining director (and not by stockholders). Any director appointed to fill a vacancy or a newly created directorship shall hold office until the next election of the class of directors of the director which such director replaced or the class of directors to which such director was appointed, and until his or her successor is elected and qualified or until his or her earlier resignation or removal.

Notwithstanding the foregoing, in the event that the holders of any class or series of Preferred Stock of the Corporation shall be entitled, voting separately as a class, to elect any directors of the Corporation, then the number of directors that may be elected by such holders voting separately as a class shall be in addition to the number fixed pursuant to a resolution of the board of directors of the Corporation. Except as otherwise provided in the terms of such class or series, (i) the terms of the directors elected by such holders voting separately as a class shall

expire at the annual meeting of stockholders next succeeding their election without regard to the classification of other directors and (ii) any director or directors elected by such holders voting separately as a class may be removed, without cause, by the holders of a majority of the voting power of all outstanding shares of stock of the Corporation entitled to vote separately as a class in an election of such directors.

ARTICLE VIII

No action of stockholders of the Corporation required or permitted to be taken at any annual or special meeting of stockholders of the Corporation may be taken without a meeting of stockholders, without prior notice and without a vote, and the power of stockholders of the Corporation to consent in writing to the taking of any action without a meeting is specifically denied. Notwithstanding this Article VIII, the holders of any series of Preferred Stock of the Corporation shall be entitled to take action by written consent to such extent, if any, as may be provided in the terms of such series.

ARTICLE IX

A. In addition to any approval of the board of directors or any stockholder vote or consent required by the laws of the State of Delaware or any other provision of this Certificate of Incorporation or otherwise, there shall be required for the approval, adoption, or authorization of a Business Combination with an Interested Person the affirmative vote or consent of the holders of a majority of the shares of stock of the Corporation entitled to vote in elections of directors considered separately for the purposes of this Article IX, which are not beneficially owned, directly or indirectly, by such Interested Person; provided, however, that said voting requirement shall not be applicable if all of the conditions specified in subparagraphs (1) and (2) below are met or if all of the conditions specified in subparagraph (3) are met:

(1) The consideration to be received per share in such Business Combination by holders of the stock of the Corporation is payable in cash or Acceptable Securities, or a combination of both, and the Acceptable Securities (plus the cash, if any) have a fair market value per share of the Corporation's stock of not less than either:

(a) the highest price (including the highest per share brokerage commissions, transfer tax, and soliciting dealers fees) paid by said Interested Person in acquiring any of the Corporation's stock; or

(b) a price per share obtained by multiplying the aggregate earnings per share of stock of the Corporation (appropriately adjusted for any subdivision of shares, stock dividend, or combination of shares during the period) for the four full consecutive fiscal quarters immediately preceding the record date for solicitation of votes or consents on such Business Combination by the figure obtained by dividing the highest per share price (including the highest per share brokerage commissions, transfer tax, and soliciting dealers fees) paid by such Interested

Person acquiring any of the Corporation's stock by the aggregate earnings per share of the Corporation for the four full consecutive fiscal quarters immediately preceding the time when the Interested Person shall have become the beneficial owner of five percent (5%) or more of the stock of the Corporation entitled to vote in elections of directors.

If any securities were issued by an Interested Person in exchange for stock of the Corporation prior to the proposed Business Combination, the fair market value of said securities at the time of issue shall be used in determining the per share price paid for said stock.

(2) After the Interested Person has become the beneficial owner of five percent (5%) or more of the stock of the Corporation entitled to vote in the election of directors and prior to the consummation of such Business Combination, there shall have been no reduction in the rate of dividends payable on the Corporation's stock which would result in a quarterly dividend rate per share which is less than the average quarterly dividend rate per share for the four full consecutive fiscal quarters immediately preceding the time when the Interested Person shall have become the beneficial owner of five percent (5%) or more of the stock of the Corporation unless such reduction in the rate of dividends has been approved by the board of directors of the Corporation and a majority of the members of the board of directors approving such reduction were duly elected and acting members of the board of directors prior to the time that such Interested Person shall have become a beneficial owner of five percent (5%) or more of the shares of the Corporation. For the purposes of this paragraph, "quarterly dividend rate per share" for any quarterly dividend shall be equal to the percentage said quarterly dividend per share bears to the earnings per share for the four full fiscal quarters immediately preceding the declaration of said quarterly dividend.

(3) The board of directors of the Corporation has approved a memorandum of understanding with such other Interested Person with respect to such Business Combination prior to the time that such Interested Person shall have become a beneficial owner of five percent (5%) or more of the shares of stock entitled to vote in elections of directors, or thereafter if such Business Combination is otherwise approved by the board of directors of the Corporation, provided that a majority of the members of the board of directors voting for the approval of such transaction were duly elected and acting members of the board of directors prior to the time that such Interested Person shall have become a beneficial owner of five percent (5%) or more of the shares of stock of the Corporation entitled to vote in elections of directors.

B. For the purposes of this Article IX:

(1) "Affiliate" and "associate" shall have the respective meanings given those terms in Rule 12b-2 of the General Rules and Regulations under the Securities Exchange Act of 1934, as amended.

(2) A person shall be the "beneficial owner" and "beneficially owns" shares of stock of the Corporation (other than shares of the Corporation's stock held in its treasury) (a) which such person and its affiliates and associates beneficially own, directly or indirectly, whether of record or not, (b) which such person or any of its affiliates or associates has the right

to acquire, pursuant to any agreement upon the exercise of conversion rights, warrants, or options, or otherwise, (c) which such person or any of its affiliates or associates has the right to sell or vote pursuant to any agreement, or (d) which are beneficially owned, directly or indirectly, by any other person with which such first mentioned person or any of its affiliates or associates has any agreement, arrangement, or understanding for the purpose of acquiring, holding, voting, or disposing of securities of the Corporation.

(3) "Business Combination" is

(a) any merger or consolidation of the Corporation or any subsidiary of the Corporation with or into any Interested Person (regardless of the identity of the surviving corporation);

(b) any sale, lease, or other disposition of all or any substantial part of the assets of the Corporation or any subsidiary of the Corporation to any Interested Person for cash or securities or both;

(c) any issuance or delivery of securities of the Corporation or a subsidiary of the Corporation (which the beneficial owner shall have the right to vote, or to vote upon exercise, conversion, or by contract) to an Interested Person in consideration for or in exchange of any securities or other property (including cash);

(4) "Acceptable Securities" shall mean (a) securities of the same class or series, with the same rights, powers, and benefits and of the same denomination, term, and interest, or dividend, if any, as the securities issued and delivered by the Interested Person in exchange for the majority of the stock of the Corporation acquired by the Interested Person or (b) the class of common stock of the Interested Person which is beneficially owned by the most persons.

(5) "Interested Person" is any person which, as of the record date for the determination of stockholders entitled to notice of any Business Combination and to vote thereon or consent thereto, or as of the date of any such vote or consent, or immediately prior to the consummation of any Business Combination, beneficially owns, directly or indirectly, five percent (5%) or more of the shares of stock of the Corporation entitled to vote in elections of directors.

(6) "Person" is an individual, partnership, corporation, limited liability company, or other entity.

(7) "Subsidiary of the Corporation" is any corporation of which fifty percent (50%) or more of any class of stock is beneficially owned, directly or indirectly, by the Corporation.

C. No amendment to this Certificate of Incorporation shall amend, alter, change, or repeal any of the provisions of this Article IX unless such amendment, in addition to receiving

any stockholder vote or consent required by the laws of the State of Delaware in effect at the time, shall receive the affirmative vote or consent of the holders of a majority of the shares of stock of the Corporation entitled to vote in elections of directors which are not beneficially owned, directly or indirectly, by any person which would be an Interested Person if the vote or consent on such amendment were a vote or consent on a Business Combination.

ARTICLE X

A director of the Corporation shall not be personally liable to the Corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except for liability (i) for any breach of the director's duty of loyalty to the Corporation or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) under Section 174 of the Delaware General Corporation Law, or (iv) for any transaction from which the director derived an improper personal benefit. If the Delaware General Corporation Law is amended to authorize corporate action further eliminating or limiting the personal liability of directors, then the liability of a director of the Corporation shall be eliminated or limited to the fullest extent permitted by the Delaware General Corporation Law, as so amended.

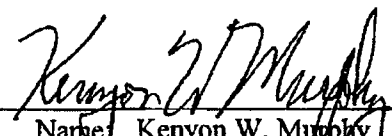
Any repeal or modification of the foregoing paragraph by the stockholders of the Corporation shall not adversely affect any right or protection of a director of the Corporation existing at the time of such repeal or modification.

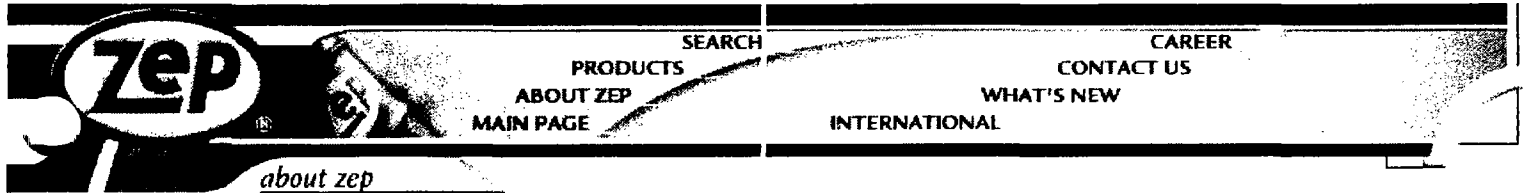
ARTICLE XI

No provision of Article V, Article VII, Article VIII or Article X or of this Article XI shall be amended, modified or repealed, and no provision inconsistent with any such provision shall become part of this Certificate of Incorporation, unless such matter is approved by the affirmative vote of the holders of not less than 80% of the voting power of all outstanding shares of Common Stock of the Corporation and all other outstanding shares of stock of the Corporation entitled to vote on such matter, with such outstanding shares of Common Stock and other stock considered for this purpose as a single class. Any vote of stockholders required by this Article XI shall be in addition to any other vote of the stockholders that may be required by law, this Certificate of Incorporation, the by-laws of the Corporation, any agreement with a national securities exchange or otherwise.

IN WITNESS WHEREOF, the Corporation has caused this certificate to be signed and attested by its duly authorized officer on this 9th day of November, 2001.

ACUITY BRANDS, INC.

By: 
Name: Kenyon W. Murphy
Title: Senior Vice President



Since its beginning in Atlanta, Georgia in 1937, Zep's focus has been to offer customers the widest selection of top-quality industrial cleaning products with superior personal service and professional technical support. 68 years later, Zep continues to do it better than anyone else in the industry. And we do it all over the world. Zep has a solid presence throughout America and in the international marketplace, reaching into every major city in North America, and countries around the world on five continents. Certified as an ISO-9001 & 14001 manufacturer, Zep produces a full line of sanitation and maintenance chemicals for professional use. More than 3,500 quality products bear the Zep name, including detergents, disinfectants, hand cleaners, degreasers, deodorants, lubricants, and floor finishes.

Zep services over 300,000 customers in a variety of industries including automotive, hospitality, food processing, car washing, government, manufacturing, institutional, and municipalities. As our partners, Zep customers enjoy the best we have to offer:

- Widest product line serving diverse industries
- Trained, knowledgeable network of Zep Reps throughout the world
- Technical assistance from professional laboratory chemists
- Fast, accurate delivery
- Regulatory and compliance information, including MSDS's, OSHA requirements and Hazardous material disposal procedures

Zep is a business unit of Acuity Specialty Products Group, Inc., a division of Acuity Brands(NYSE: AYI) .

Acuity Brands, Inc. is an NYSE-listed (AYI) business with annual sales exceeding \$2.0 billion. It is comprised of the Acuity Brands Lighting and Acuity Specialty Products. Acuity Specialty Products is a leading provider of specialty chemical products to the institutional, industrial, and retail markets throughout the world.

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Cathy Cox



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Documents

Date: 5/10/2006

(Annual
Registration
History etc.)

Business Name History

Name	Name Type
ZEP MANUFACTURING COMPANY (DISSOLVED 11-18-88)	Current Name

Profit Corporation - Domestic - Information

Control No.:	J612221
Status:	Diss./Cancel/Terminat
Entity Creation Date:	8/21/1986
Dissolve Date:	11/18/1988
Jurisdiction:	GA
Principal Office Address:	1180 PEACHTREE ST NE ATLANTA GA 30309-3521
Principal Mailing Address:	No Address

Registered Agent

Agent Name:	UNITED STATES CORPORATION CO
Office Address:	66 LUCKIE ST P'TREE & BROAD ATLANTA GA 30303

ZEP MANUFACTURING COMPANY

03/22/2002

DATE : 03/04/02 PAGE 1 DE 3
 REMPLACE: 10/05/01 NUMERO DE PRODUIT: 0414
 ZEP-D-GREASE

PARTIE I - CONTACTS D'URGENCE

LA COMPAGNIE ZEP DU CANADA
 660 LEPINE AVENUE
 DORVAL, QUEBEC H9P-1G2
 TELEPHONE (514) 631-9041
 ENTRE 8:00AM - 4:30PM

TELEPHONE D'URGENCE
 APRES LES HEURES DE BUREAU,
 LES FINS DE SEMAINES,
 VACANCES, (CANUTEC) APPELER
 A FRAIS VIVRES (613) 996-6666

PARTIE II - INGREDIENTS DANGEREUX

DESIGNATIONS CHIMIQUES	TLV (PPM)	EFFECTS (VOIR VERSO)	% DANS LE PRODUIT
** NAPhte AROMATIQUE LEGER ** solvant d'hydrocarbure aromatique; solvant de naphte (petrole); CAS# 64742-95-6; RTECS# AUCUN; OSHA PEL -N/D		CBL CNS IRR	40-70
LD50: 4700 mg/kg SPECIES: RAT ROUTE: ORL			
LC50: 3700 ppm/8H SPECIES: RAT ROUTE: INH			
** KEROSENE ** techsene; huile de carburant #1; huile de charbon; CAS# 8008-20-6; RTECS# OA5500000 OSHA PEL -N/D	N/D	IRR CBL	10-30
LD50: 28000 mg/kg SPECIES: LAPIN ROUTE: ORL			
LC50: N/D mg/m3 SPECIES: N/D ROUTE: N/D			
** ALCOOL C12-C16 ETHOXYLES ** CAS# 68551-12-2	N/D	IRR	1-5
LD50: SPECIES: ROUTE:			
LC50: SPECIES: ROUTE:			
** GLYCOL D'HEXYLENE ** methyl-2-pentanediol-2,4; dihydroxy-2,4-methyl-2-pentane; hexanediol-1,2;		IRR	1-5
LD50: 3700 mg/kg SPECIES: RAT ROUTE: ORL			
LC50: 66 mg/m3 SPECIES: RAT ROUTE: INH			
** SELS DE SODIUM D'ACIDES SULFONIQUES DE PETROLE ** sulfonate de sodium de petrole de marque; CAS# 68608-26-4; RTECS# AUCUN;	N/D	IRR	1-5
LD50: N/D mg/kg SPECIES: N/D ROUTE: N/D			
LC50: N/D mg/m3 SPECIES: N/D ROUTE: N/D			
** ALCOOLS C9-C11 ETHOXYLES ** alcool primaire lineaire ethoxyle (6 moles d'OE); CAS# 68439 -46-3; RTECS# AUCUN; OSHA PEL N/D	N/D	IRR	1-5
LD50: 2000 mg/kg SPECIES: RAT ROUTE: ORL			
LC50: N/D mg/m3 SPECIES: N/D ROUTE: N/D			

LA CLASSIFICATION SIMDUT DE CE PRODUIT EST : B3 D2A

PARTIE III - DONNEES TOXICOLOGIQUES

NOTE SPECIALE: IL N'Y A PAS D'EFFETS DANGEREUX DANS LES CONDITIONS D'UTILISATION
 RECOMMANDEES SI LES PRECAUTIONS DE SECURITE SONT PRATIQUEES

EFFETS AIGUS DE SUPEREXPOSITION: L'exposition par inhalation peut produire une

irritation des yeux, nez et gorge. L'inhalation de quantites dangereuses de vapeurs peut provoquer une legere depression du systeme nerveux central, caracterisee par des maux de tete, la nausee, le vertige et la stupeur. L'introduction d'hydrocarbures dans les poumons, lors de l'aspiration du liquide de vomissement peut provoquer une pneumonie chimique. Les problemes respiratoires et les maladies de la peau existant peuvent s'aggraver suite a l'exposition.

EFFETS CHRONIQUES DE SUPEREXPOSITION: Un contact frequent ou prolonge avec la peau peut produire une legere depression du systeme nerveux central, caracterisee par des maux de tete, la nausee, la stupeur et le coma. La peau qui est degraissee par une exposition frequente aux solvants hydrocarbures est predisposée a l'irritation, a l'infection et a la dermite. Des etudes sur les effets de l'inhalation prolongee, effectuees sur des animaux ont indiquees une possibilite de lesions aux poumons et d'anomalies dans la production du sang, certaines d'entre elles etant mortelles. La pertinence de ces etudes par rapport a la sante humaine et aux niveaux d'exposition pouvant produire ces resultats n'a pas ete etablie. Aucun des ingredients n'est classifie comme cancerigene par l'IIARC, le NTP et OSHA.

03/22/2002

DATE : 03/04/02 PAGE 2 DE 3
REPLACE: 10/05/01 NUMERO DE PRODUIT: 0414
ZEP-D-GREASE

PARTIE III - DONNEES TOXICOLOGIQUES (SUITE)
LES VALEURS DE TLV DISPONIBLES A LA PARTIE II CONCERNENT LES INGREDIENTS
CONTROLES INDIVIDUELS

PEL/TLV ESTIME: Pas etabli.
VOIES PRINCIPALES D'ENTREE: inh., peau

CODES HMIS: SANTE 2;FLAM 2;REACT. 0;PROTECT. PERS. B ;HAZ. CHRONIQUE Oui

PREMIERS SOINS:

PEAU----- Laver a fond la peau contaminee avec un savon ou un detergent doux. Appliquer une creme pour la peau contenant de la lanoline. Obtenir une attention medicale si l'irritation persiste.

YEUX----- Rincer immediatement les yeux avec beaucoup d'eau pendant au moins 15 minutes en soulevant occasionnellement les paupieres superieures et inferieures. Obtenir une attention medicale immediatement.

INHALATION-- Amener la personne exposee a l'air frais. Si l'irritation persiste, obtenir une attention medicale rapidement.

INGESTION--- Si avale, ne pas faire vomir. Si le vomissement survient, garder la tete sous le niveau des hanches. Obtenir une attention medicale d'urgence immediatement.

PARTIE IV - PROTECTIONS SPECIALES

VETEMENTS PROTECTEURS : Porter des gants de nitrile ou utiliser des gants dont la resistance aux ingredients de ce produit a ete verifiee.

PROTECTION POUR LES YEUX : Porter des lunettes de protection bien ajustees et a l'epreuve des eclaboussures, specialement si des verres de contact sont portes.

PROTECTION RESPIRATOIRE : Si la ventilation est inadeguate, porter un

respirateur convenablement ajuste et approuve par le SIMDUT.
VENTILATION : La ventilation devrait etre equivalente au dehors.
Utiliser des ventilateurs d'echappement et ouvrir les fenetres dans les
endroits renfermes.

PARTIE V - PROPRIETES PHYSIQUES

POINT D'EBULLITION (F) : 154-316 C
DENSITE : 0.90
TENSION DE VAPEUR (MMHG): APPROX .3MM
POURCENTAGE VOLATILE (PAR VOLUME) : 82.4
DENSITE RELATIVE DE VAPEUR (AIR=1): APPROX 4.1
TAUX D'EVAPORATION(Acetate de buty=1): 0.04
SOLUBILITE DANS L'EAU : s'emulsifie
PH(CONCENTRE) : N/A
PH(DILUTION DE N/A) : N/A
ASPECT ET ODEUR: Liquide brun-clair avec une odeur de solvant.

PARTIE VI - RISQUE D'INCENDIE ET D'EXPLOSION

POINT D'ECLAIR (F) (METHODE UTILISEE): 45 C (TCC)
LIMITE D'INFLAMMABILITE LEI N/A LES OONA
MOYEN D'EXTINCTION: Dioxyde de carbone, poudres chimiques et mousse.
MESURE SPECIALE DE LUTTE CONTRE L'INCENDIE: Porter un appareil respiratoire
autonome a pression positive.
RISQUE D'INCENDIE INHABITUEL: Les barils exposes aux flammes devraient etre
refroidis avec un jet d'eau.

PARTIE VII - DONNEES DE REACTIVITE

STABILITE: stable.
INCOMPATABILITE (A EVITER): La chaleur, la flamme nue, les etincelles et les
agents oxydants.
POLYMERISATION: N'arrivera pas.
DANGER DE DECOMPOSITION: Bioxyde de carbone, monoxyde de carbone et oxydes de
soufre.

PARTIE VIII - PROCEDURE POUR L'ECLABOUSSURE ET L'ELIMINATION DES DECHETS

DISPOSITIONS A PRENDRE EN CAS DE DEVERSEMENT OU D'ECLABOUSSURE: Eloigner
immEDIATEMENT toute source de flamme, d'ignition et de chaleur elevee. Absorber
les renversements a l'aide d'un materiel absorbant inerte (i.e. Zep-OZorb).
Ramasser et placer le residu dans un contenant propre qui repond aux
specifications T.M.D. pour la disposition. Laver a fond la region avec une
solution detergente et bien rincer avec de l'eau.

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PARTIE VIII - PROCEDURE POUR L'ECLABOUSSURE ET L'ELIMINATION DES DECHETS (SUITE)
METHODE POUR L'ELIMINATION DES DECHETS: Les liquides ne peuvent etre envoyes a
des sites d'enfouissement a moins d'etre solidifies. Le produit inutilisable et
le materiel utilise, puis ramasse, peuvent necessiter une disposition comme

dechet dangereux dans une installation autorisee de
traitement/entreposage/disposition. Consulter les agences locales, provinciales
et federales pour connaitre la methode de disposition appropriee pour votre
region.

DECHETS DANGEREUX NOS: N/A

PARTIE IX - PRECAUTIONS SPECIALES

PRECAUTIONS A SUIVRE LORS DE LA MANUTENTION ET L'ENTREPOSAGE: COMBUSTIBLE!
Entreposer et utiliser loin de la chaleur, des etincelles, de la flamme nue, ou
de toute autre source d'ignition. Tenir le produit loin de la peau et des yeux.
Ne pas respirer les nuages de la pulverisation ou les vapeurs. Fermer le
contenant hermetiquement lorsque'il n'est pas utilise. Entreposer loin du
soleil et de la chaleur. Les vetements et les souliers qui ont ete contamines
par le produit doivent etre enleves rapidement et ne doivent pas etre reportes
avant d'avoir ete nettoyes a fond. Placer des affiches "Defense de fumer" en
accord avec les reglements locaux pour les liquides combustibles. Tenir hors de
la portee des enfants.

SECTION X - DONNEES DE TRANSPORT

NOM PROPRE POUR LE TRANSPORT DOT:

N/A

CLASS DANGEREUSE DOT: N/A

NUMERO D'IDENTIFICATION DOT: N/A

ETIQUETTE/AFFICHE DOT: N/A

PREPARE PAR: DIVISION DE RECHERCHE & DEVELOPPEMENT DE ZEP (514) 631-9041.



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ZEP MANUFACTURING COMPANY
FIRST IN MAINTENANCE PRODUCTS

ISSUE DATE: 04/23/90 ZEP-D-OREASE
SUPERSEDES: 07/12/89 PRODUCT NUMBER: 0414

SECTION I - EMERGENCY CONTACTS

ZEP MANUFACTURING COMPANY TELEPHONE: (404)352-1680 BETWEEN 8:00 AM-5:00 PM (EST)
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ATLANTA, GEORGIA 30301 435-2973, 996-0899, 351-2952, 971-3367, 432-2873
LOCAL POISON CONTROL CENTER
TRANSPORTATION EMERGENCY: CHEMTREC: TOLL FREE 1-800-424-9300 ALL CALLS RECORDED
DISTRICT OF COLUMBIA (202)483-7616 ALL CALLS RECORDED

SECTION II - HAZARDOUS INGREDIENTS

DESIGNATIONS	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PROD.
** LIGHT AROMATIC NAPHTHA ** aromatic hydrocarbon solvent; solvent naphtha(petroleum); CAS# 64742-95-6; RTECS# NONE; OSHA PEL-N/D	N/D	CBL CNS IRR	60-70
** SULFONIC ACIDS, PETROLEUM, SODIUM SALTS ** proprietary sodium petroleum sulfonate; CAS# 68608-26-4; RTECS# NONE; OIL MIST LIMIT = 5 MG/M3	N/D	IRR	< 5
** NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL ** poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy; CAS# 9016-45-9; RTECS# MD0900000; OSHA PEL-N/D	N/D	EIR	< 5
** NONYLPHENOXYPOLY(ETHYLENEOXY)ETHANOL ** poly(oxy-1,2-ethanediyl), alpha-(nonylphenyl)-omega-hydroxy; CAS# 9016-45-9; RTECS# MD905000; OSHA PEL-N/D	N/D	EIR	< 5
** DIPROPYLENE GLYCOL METHYL ETHER ** dipropylene glycol monomethyl ether; CAS# 34590-94-8; RTECS# JB1575000; OSHA PEL-100 PPM; OSHA/ACGIH STEL-150 PPM	100	CBL	<5
** KEROSENE ** techsene; fuel oil #1; coal oil; CAS# 8008-20-6; RTECS# OA5500000; OSHA PEL-N/D	N/D	IRR CBL	10-20

SPECIAL NOTE: ADVERSE HEALTH EFFECTS WOULD NOT BE EXPECTED UNDER RECOMMENDED CONDITIONS OF USE SO LONG AS PRESCRIBED SAFETY PRECAUTIONS ARE PRACTICED.

SECTION III - HEALTH HAZARD DATA

ACUTE EFFECTS OF OVEREXPOSURE:

EXPOSURE BY INHALATION MAY PRODUCE EYE, NOSE, AND THROAT IRRITATION. INHALATION OF HARMFUL AMOUNTS OF VAPOR MAY PRODUCE MILD CENTRAL NERVOUS SYSTEM DEPRESSION, CHARACTERIZED BY HEADACHE, NAUSEA, VERTIGO, AND STUPOR. INTRODUCTION OF HYDRO-CARBON INTO THE LUNGS, AS IN ASPIRATION OF VOMITUS FLUIDS, MAY PRODUCE CHEMICAL PNEUMONIA. EXISTING RESPIRATORY DISORDERS OR SKIN DISEASES MAY BE AGGRAVATED BY EXPOSURE.



MATERIAL SAFETY DATA SHEET

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SECTION III - HEALTH HAZARD DATA (CONTINUED)

CHRONIC EFFECTS OF OVEREXPOSURE:

REPEATED OR PROLONGED, SKIN CONTACT MAY PRODUCE MILD CENTRAL NERVOUS SYSTEM DEPRESSION, CHARACTERIZED BY HEADACHE, NAUSEA, STUPOR, AND COMA. SKIN WHICH IS DEFATTED BY REPEATED EXPOSURE TO HYDROCARBON SOLVENTS IS MORE SUSCEPTIBLE TO IRRITATION, INFECTION, AND DERMITITIS. ANIMAL STUDIES OF THE EFFECTS OF PROLONGED INHALATION INDICATED A POTENTIAL FOR LUNG DAMAGE AND BLOOD PRODUCTION ABNORMALITIES, SOME OF WHICH WERE FATAL. RELEVANCE OF THESE STUDIES TO HUMAN HEALTH AND THE LEVELS OF EXPOSURE WHICH MIGHT PRODUCE THESE RESULTS, HAS NOT BEEN ESTABLISHED.

NONE OF THE HAZARDOUS INGREDIENTS ARE LISTED AS CARCINOGENS BY IARC, NTP, & OSHA

EST'D PEL/TLV: 200 PPM

PRIMARY ROUTES OF ENTRY: INH, SKIN.

HMIS CODES: HEALTH 1; FLAM. 2; REACT. 0; PERS. PROTECT. B ; CHRONIC HAZ. YES

FIRST AID PROCEDURES:

SKIN : WASH CONTAMINATED SKIN THOROUGHLY WITH SOAP OR A MILD DETERGENT. APPLY A SKIN CREAM WITH LANOLIN. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
EYES : IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, OCCASIONALLY LIFTING UPPER AND LOWER LIDS. GET MEDICAL ATTENTION AT ONCE.
INHALE: MOVE EXPOSED PERSON TO FRESH AIR. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION PROMPTLY.
INGEST: IF SWALLOWED, DO NOT INDUCE VOMITING. IF VOMITING OCCURS, KEEP HEAD BELOW HIP LEVEL. GET EMERGENCY MEDICAL ATTENTION IMMEDIATELY.

SECTION IV - SPECIAL PROTECTION INFORMATION

PROTECTIVE CLOTHING : WEAR NITRILE GLOVES OR USE GLOVES WITH DEMONSTRATED RESISTANCE TO THE INGREDIENTS IN THIS PRODUCT.
EYE PROTECTION : WEAR TIGHT-FITTING SPLASH-PROOF SAFETY GLASSES ESPECIALLY IF CONTACT LENSES ARE WORN.
RESPIRATORY PROTECTION: IF VENTILATION IS INADEQUATE, WEAR A PROPERLY FITTING MSHA OR OSHA-APPROVED RESPIRATOR.
VENTILATION : VENTILATION SHOULD BE EQUIVALENT TO OUTDOORS. USE EXHAUST FANS AND OPEN WINDOWS IN ENCLOSED SPACES.

SECTION V - PHYSICAL DATA

BOILING POINT (F) :	310-600F	SPECIFIC GRAVITY :	0.88
VAPOR PRESSURE (MMHG):	APPROX. 3MM	PERCENT VOLATILE BY VOLUME (%) :	85
VAPOR DENSITY (AIR=1):	APPROX. 4.1	EVAPORATION RATE (BUTYL ACETATE =1):	0.04
SOLUBILITY IN WATER :	EMULSIFIABLE	PH (CONCENTRATE) :	N/A
		PH (USE DILUTION OF N/A):	N/A

APPEARANCE AND ODOR : CLEAR, THIN DARK BROWN LIQUID WITH AROMATIC SOLVENT ODOR

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT (F) (METHOD USED): 113F (TCC)
FLAMMABLE LIMITS LEL N/A UEL N/A
EXTINGUISHING MEDIA : CARBON DIOXIDE, DRY CHEMICAL AND FOAM.
SPECIAL FIRE FIGHTING: WEAR SELF-CONTAINED POSITIVE PRES. BREATHING APPARATUS.
UNUSUAL FIRE HAZARDS : FIRE EXPOSED DRUMS SHOULD BE COOLED WITH STREAM OF WATER.



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SECTION VII - REACTIVITY DATA

STABILITY : STABLE
INCOMPATIBILITY(AVOID) : HEAT, OPEN FLAME, SPARK, AND OXIDIZING AGENTS
POLYMERIZATION : WILL NOT OCCUR.
HAZARDOUS DECOMPOSITION: CARBON DIOXIDE, CARBON MONOXIDE, & OXIDES OF SULFUR

SECTION VIII - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
IMMEDIATELY ELIMINATE ALL FLAME, IGNITION AND HIGH-HEAT SOURCES. ABSORB SPILL ON INERT ABSORBENT MATERIAL (eg ZEP-O-ZORB). PICK UP AND PLACE RESIDUE IN A CLEAN, D.O.T. SPECIFICATION CONTAINER FOR DISPOSAL. WASH AREA THOROUGHLY WITH A DETERGENT SOLUTION AND RINSE WELL WITH WATER.

WASTE DISPOSAL METHOD:
LIQUIDS CANNOT BE SENT TO LANDFILLS UNLESS SOLIDIFIED. UNUSABLE PRODUCT AND COLLECTED, SPENT MATERIAL MAY REQUIRE DISPOSAL AS A HAZARDOUS WASTE AT A PERMITTED TREATMENT/STORAGE/DISPOSAL FACILITY. SOLVENT WASTES MAY REQUIRE TREATMENT TO MEET THE APPROPRIATE STANDARDS BEFORE DISPOSAL IN A CHEMICAL OR INDUSTRIAL WASTE LANDFILL. CONSULT LOCAL, STATE, AND FEDERAL AGENCIES FOR PROPER DISPOSAL METHOD IN YOUR AREA.

RCRA HAZ. WASTE NOS.: D001 (SEE ABOVE)

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:
COMBUSTIBLE! STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME, OR ANY SOURCE OF IGNITION.
KEEP PRODUCT AWAY FROM SKIN AND EYES.
DO NOT BREATHE SPRAY MISTS OR VAPORS.
CLOSE CONTAINER TIGHTLY WHEN NOT IN USE. STORE AWAY FROM SUN AND HEAT.
CLOTHING OR SHOES WHICH BECOME CONTAMINATED WITH SUBSTANCE SHOULD BE REMOVED PROMPTLY AND NOT REWORN UNTIL THOROUGHLY CLEANED.
POST "NO SMOKING" SIGNS ACCORDING TO LOCAL REGULATIONS FOR COMBUSTIBLE LIQUIDS.
KEEP OUT OF THE REACH OF CHILDREN.

SECTION X - TRANSPORTATION DATA

DOT PROPER SHIPPING NAME

NONE

DOT HAZARD CLASS: N/A

DOT I.D. NUMBER : N/A DOT LABEL/PLACARD: NONE

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR PART 117 SUBSTANCE(RO IN A SINGLE CONTAINER): NONE



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DESIGNATIONS	TLV (PPM)	EFFECTS (SEE REVERSE)	% IN PROD.
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** SULFONIC ACIDS, PETROLEUM, SODIUM SALTS ** propyl-etary sodium petroleum sulfonate; CAS# 68608-26-4; RTECS# NONE; OIL MIST LIMIT = 5 MG/M3	N/D	IRR	< 5
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SECTION III - HEALTH HAZARD DATA (CONTINUED)

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EST'D PEL/TLV: 200 PPM

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HMIS CODES: HEALTH 1; FLAM. 2; REACT. 0; PER. PROTECT. B ; CHRONIC HAZ. YES

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SOLUBILITY IN WATER	: EMULSIFIABLE	PH (CONCENTRATE)	: N/A
		PH (USE DILUTION OF N/A)	: N/A

APPEARANCE AND ODOR : CLEAR, THIN DARK BROWN LIQUID WITH AROMATIC SOLVENT ODOR

SECTION VI - FIRE AND EXPLOSION DATA

FLASH POINT (F) (METHOD USED): 113F (TCC)
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RCRA HAZ. WASTE NOS.: D001 (SEE ABOVE)

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KEEP OUT OF THE REACH OF CHILDREN.

SECTION X - TRANSPORTATION DATA

DOT PROPER SHIPPING NAME
NONE

DOT HAZARD CLASS: N/A

DOT I.D. NUMBER : N/A

DOT LABEL/PLACARD: NONE

EPA TSCA CHEMICAL INVENTORY - ALL INGREDIENTS ARE LISTED

EPA CWA 40CFR PART 117 SUBSTANCE(RQ IN A SINGLE CONTAINER): NONE